


Bryn Mawr
College
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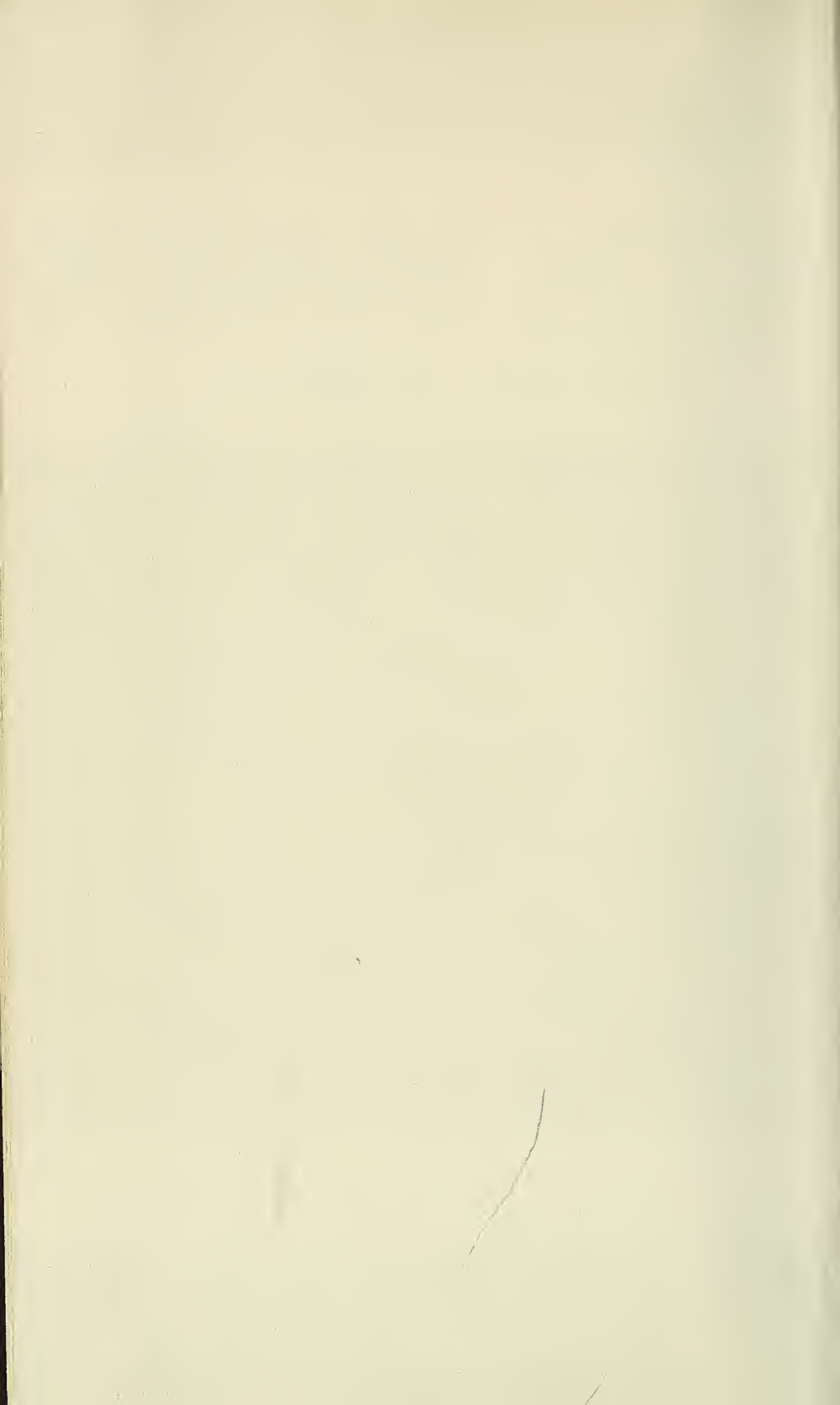


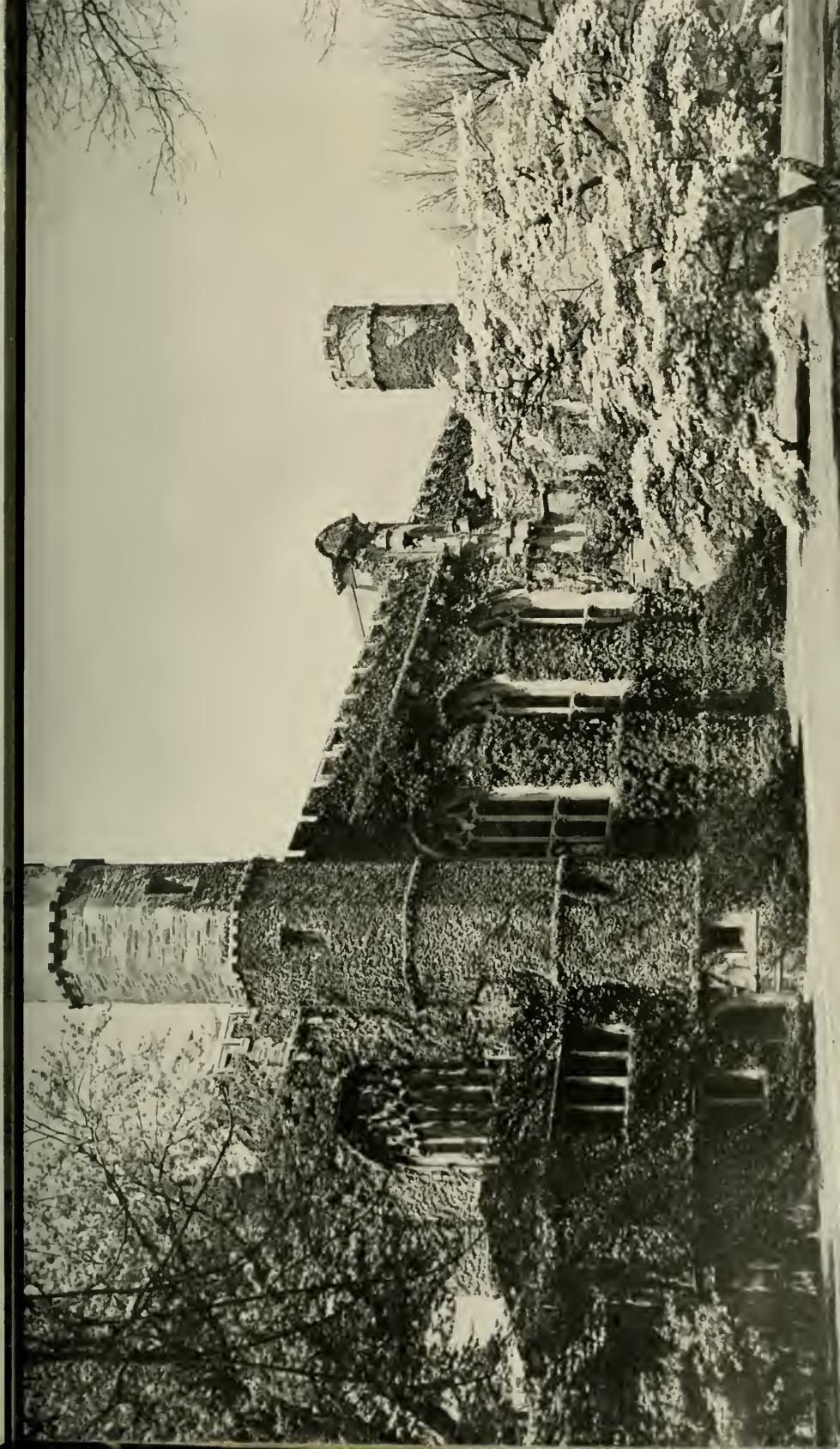
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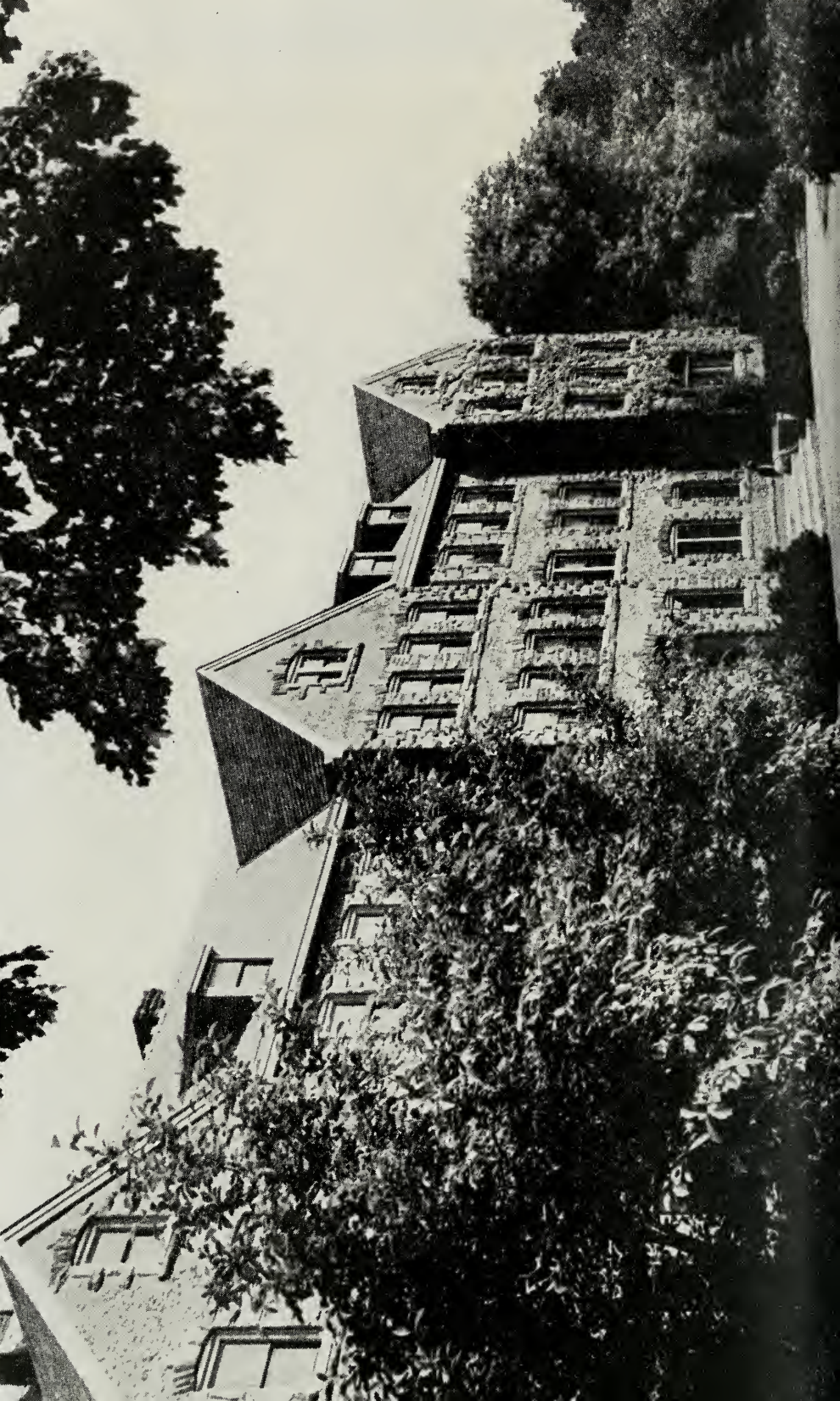
RYN MAWR

COLLEGE CALENDAR

THE GRADUATE SCHOOL 1961-1962





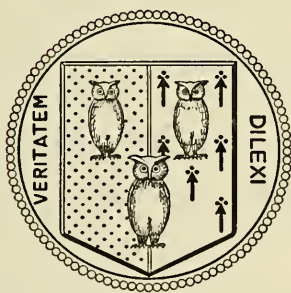


Archives

Bryn Mawr College Calendar

THE GRADUATE SCHOOL

ISSUE FOR THE SESSION OF
1961 • 1962



JULY 1961

Volume LIV

Number 2

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College Calendar

The Graduate School 1961-1962

FIRST SEMESTER

1961

- September 21.* Graduate Center opens to resident graduate students
Registration period for graduate students begins
Final date for filing applications for admission to the Graduate School
- September 26.* Work of 77th academic year begins at 9 A.M.
- September 28.* Registration period for graduate students ends
- September 30.* English test for foreign graduate students
- October 14.* French language examinations
- October 21.* Spanish and Italian language examinations
Statistics examinations for M.A. candidates
- October 28.* German language examinations
- November 4.* Russian language examinations
- November 22.* Thanksgiving holiday begins after last class
- November 27.* Thanksgiving holiday ends at 9 A.M.
- December 15.* Christmas vacation begins at 12:45 P.M.

1962

- January 4.* Christmas vacation ends at 9 A.M.
- January 6.* French language examinations
- January 13.* Spanish and Italian language examinations
Statistics examinations for M.A. candidates
- January 19.* Last day of lectures
- January 20.* German language examinations

- January* 22. Collegiate examinations begin
- January* 27. Russian language examinations
- January* 31. Registration period for graduate students begins
Final date for filing applications for admission for
Semester II
- February* 1. Collegiate examinations end

SECOND SEMESTER

- February* 5. Work of the second semester begins at 9 A.M.
- February* 7. Registration period for graduate students ends
- March* 23. Spring vacation begins after last class
- April* 2. Spring vacation ends at 9 A.M.
- April* 7. French language examinations
- April* 10. Ph.D. dissertations in all fields except experimental
science and mathematics must be submitted to the
Graduate School office
- April* 14. Spanish and Italian language examinations
Statistics examinations for M.A. candidates
- April* 28. German language examinations
- May* 1. Ph.D. dissertations in experimental science and mathe-
matics must be submitted to the Graduate School office
- May* 12. Russian language examinations
- May* 18. Last day of lectures
- May* 21. Collegiate examinations begin
- June* 1. Collegiate examinations end
- June* 5. Conferring of degrees and close of the 77th academic
year
- June* 9. Alumnae Day

1961	1962	1963
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Photographs: The M. Carey Thomas Library; The Graduate Center on Roberts Road.

Introduction

BRYN MAWR COLLEGE was founded as an institution of higher education for women by Dr. Joseph Taylor of Burlington, New Jersey, a member of the Society of Friends. The charter was granted by the Commonwealth of Pennsylvania in 1880 and five years later the College opened. At the time of its founding not only was advanced education of a rigorous character difficult for women to obtain but graduate study as conceived at present was in its earliest stages. The lack of young women qualified to give the kind of instruction envisioned by the Founder led the first trustees to include in the plans for the new college the education of women right through to the Ph.D. Thus when Bryn Mawr College opened in 1885 it was with the first Graduate School for women and the first full graduate fellowships for women. In response to the growing demand for postgraduate study in the Philadelphia area, the Graduate School began, in the thirties, to admit men as well as women. At present about one-fourth of the students are men.

The purpose of graduate work at Bryn Mawr is to prepare students for professional careers in which scholarship and research are fundamental requirements. To this end emphasis is placed on independent work and special opportunities are provided for study and research, in small seminars, under the guidance of members of the Faculty.

Graduate work leading to the M.A. and Ph.D. is offered in the fields of modern literatures, the classics, art and archaeology, music, history and social sciences, philosophy, mathematics, the natural sciences and psychology, and in mediaeval studies. A two-year course in Social Work and Social Research leads to the degree of Master of Social Service; the advanced program in this Department leads to the Ph.D.

In all departments fellowships and scholarships are offered to applicants who are highly qualified for the work they propose to do. In a number of departments teaching or research assistantships are also available. Canadians may apply for fellowships or scholarships on the same basis as students from the United States. Awards are made to students from overseas through the Marguerite N. Farley Fund and through teaching assistantships in French, German, Italian and Spanish.

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JAMES WOOD

Alumnae Director, 1959-1964

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Alumnae Director, 1960-1965

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President of the Alumnae Association

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10. Mrs. Francis J. Stokes
11. Mrs. Ernest C. Savage
12. Mrs. Willard N. Boyden
13. Mrs. Henry J. Mali
14. Mrs. G. Howland Chase
15. Mrs. W. Nelson West, III

Faculty and Staff

ACADEMIC YEAR, 1961-1962

- KATHARINE ELIZABETH MCBRIDE, PH.D. (Bryn Mawr College),
LL.D., L.H.D., Sc.D., *President of the College*
- ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean
of the Graduate School*
- DOROTHY NEPPER MARSHALL, PH.D. (Bryn Mawr College), *Dean
of the College*
- ANNIE LEIGH BROUGHTON, M.A. (Bryn Mawr College), *Director
of Admissions*
- MARGARET TYLER PAUL, A.B. (Bryn Mawr College), *Assistant to
the President*
- JANET MARGARET AGNEW, B.L.S., M.A. (University of Manitoba),
Head Librarian
- IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of
Physical Education*
- ELIZABETH HUMESTON, M.D. (Cornell University), *College Phy-
sician*
- RHYS CARPENTER, PH.D. (Columbia University), Litt.D., *Pro-
fessor Emeritus of Classical Archaeology*
- REGINA KATHARINE CRANDALL, PH.D. (University of Chicago),
Professor Emeritus of English Composition
- GRACE MEAD ANDRUS DE LAGUNA, PH.D. (Cornell University),
Professor Emeritus of Philosophy
- MAX DIEZ, PH.D. (University of Texas), *Professor Emeritus of
German Literature*
- CHARLES GHEQUIÈRE FENWICK, PH.D. (Johns Hopkins University),
LL.D., *Professor Emeritus of Political Science*
- GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus
of Old French*
- MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor
Emeritus of German*

HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor Emeritus of History*

CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*

FRITZ MEZGER, PH.D. (University of Berlin), *Professor Emeritus of Germanic Philology*

MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*

LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin*

ANNA PELL WHEELER, PH.D. (University of Chicago), SC.D., *Professor Emeritus of Mathematics*

THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin, Secretary of the Faculty*

HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music and Visiting Professor*

FRANCISCO AYALA, *Doctor en Derecho* (University of Madrid), *Professor of Spanish*

ERNST BERLINER, PH.D. (Harvard University), *Professor of Chemistry*¹

L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*

MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Professor of Psychology*

ELEANOR A. BLISS, SC.D. (Johns Hopkins University), SC.D., *Dean of the Graduate School and Professor of Biology*

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Professor of Education and Psychology*

FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*

LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*

JOSÉ MARIA FERRATER MORA, *Licenciado en Filosofía* (University of Barcelona), *Professor of Philosophy*

1. On sabbatical leave, Semester II, 1961-1962.

- MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College), *Professor of Biology*
- FELIX GILBERT, PH.D. (University of Berlin), *Professor of History*
- ROBERT L. GOODALE, B.MUS. (Yale University), A.A.G.O., *Professor of Music*
- STEPHEN JOSEPH HERBEN, B.LITT., PH.D. (Princeton University), *Professor of English Philology*
- JOSHUA C. HUBBARD, PH.D. (Harvard University), *Professor of Economics*
- AGI JAMBOR, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*
- MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Professor of Greek*
- RICHMOND LATTIMORE, PH.D. (University of Illinois), LITT.D., *Paul Shorey Professor of Greek*
- MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of Mathematics*
- BETTINA LINN, M.A. (Bryn Mawr College), *Margaret Kingsland Haskell Professor of English*
- ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor of Italian*
- KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*
- BERTHE MARIE MARTI, PH.D. (Bryn Mawr College), *Professor of Latin*¹
- AGNES KIRSOPP LAKE MICHELS, PH.D. (Bryn Mawr College), *Professor of Latin*
- WALTER C. MICHELS, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*
- CHARLES MITCHELL, M.A., B.LITT. (Oxford University), *Richard M. Bernheimer Professor of History of Art*
- MILTON CHARLES NAHM, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*

1. On leave of absence for the year, 1961-1962.

- MILDRED BENEDICT NORTHROP, PH.D. (Columbia University), *Professor of Economics*
- JANE MARION OPPENHEIMER, PH.D. (Yale University), *Professor of Biology*
- JOHN C. OXTOBY, M.A. (University of California), *Professor of Mathematics*
- WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*
- CAROLINE ROBBINS, PH.D. (University of London), *Professor of History*
- ALEXANDER COBURN SOPER, M.F.A., PH.D. (Princeton University), *Professor of History of Art¹*
- ARTHUR COLBY SPRAGUE, PH.D. (Harvard University), *Mary E. Garrett Alumnae Professor of English Literature*
- K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and Political Theory*
- ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*
- EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*
- ROGER HEWES WELLS, PH.D. (Harvard University), *Professor of Political Science*
- MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College), *Professor of English*
- DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of Geology*
- PETER BACHRACH, PH.D. (Harvard University), *Associate Professor of Political Science*
- MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Professor of Economics*
- WARNER B. BERTHOFF, PH.D. (Harvard University), *Associate Professor of English*
- DONALD ROBERT BROWN, PH.D. (University of California), *Associate Professor of Psychology*

1. On partial leave of absence for the year, 1961-1962.

- ROBERT L. CONNER, PH.D. (Indiana University), *Associate Professor of Biology*¹
- FREDERIC CUNNINGHAM, JR., PH.D. (Harvard University), *Associate Professor of Mathematics*
- ROBERT SIMON DAVIDON, PH.D. (University of Pennsylvania), *Associate Professor of Psychology*
- FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate Professor of Russian, on joint appointment with Haverford College*
- ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate Professor of History*
- JAMES W. FOWLE, PH.D. (Harvard University), *Associate Professor of History of Art*
- LOUIS GOLDSTEIN, PH.D. (University of Minnesota), *Associate Professor of Social Work and Social Research*
- ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Professor of Physics*
- MELVILLE T. KENNEDY, JR., PH.D. (Harvard University), *Associate Professor of Political Science*
- GEORGE L. KLINE, PH.D. (Columbia University), *Associate Professor of Russian and Philosophy*
- HERTHA KRAUS, PH.D. (University of Frankfurt), *Carola Woerishoffer Associate Professor of Social Work and Social Research*
- HUGUES LEBLANC, PH.D. (Harvard University), *Associate Professor of Philosophy*
- GERTRUDE C. K. LEIGHTON, LL.B. (Yale University), *Associate Professor of Political Science*²
- PHILIP LICHTENBERG, PH.D. (Western Reserve University), *Associate Professor of Social Research*
- WILLIAM C. LOERKE, M.F.A., PH.D. (Princeton University), *Associate Professor of History of Art*
- ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Associate Professor of English*¹

1. On sabbatical leave for the year, 1961-1962.

2. On leave of absence for the year, 1961-1962.

MARIO MAURIN, PH.D. (Yale University), *Associate Professor of French*

EDMUND V. MECH, PH.D. (Indiana University), M.S.S. (Bryn Mawr College), *Associate Professor of Social Work and Social Research*

MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Associate Professor of Classical and Near Eastern Archaeology*

JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*

BERNARD ROSS, M.S.S.A. (University of Pittsburgh), PH.D. (University of Michigan), *Associate Professor of Social Work and Social Research*

EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor of Sociology*¹

CHRISTOPH E. SCHWEITZER, PH.D. (Yale University), *Associate Professor of German*

WILLIAM AUGUST WILSON, JR., PH.D. (University of California), *Associate Professor of Psychology*

GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*

MICHEL GUGGENHEIM, PH.D. (Yale University), *Assistant Professor and Associate Professor-elect of French*

JEAN D. HARING, M.A. (Ohio State University), M.S.W. (University of Michigan), *Lecturer and Associate Professor-elect of Social Work and Social Research*

DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Assistant Professor and Associate Professor-elect of History*²

ROSE SEGAL, M.S. (Simmons College School of Social Work), *Associate Professor-elect of Social Work and Social Research*

1. On leave of absence for the year, 1961-1962.

2. On sabbatical leave for the year, 1961-1962.

JAMES A. BRODERICK, PH.D. (Harvard University), *Assistant Professor of English*

ROBERT B. BURLIN, PH.D. (Yale University), *Assistant Professor of English*

ROBERT HAWES BUTMAN, M.A. (University of North Carolina), *Assistant Professor of English on the Theresa Helburn Fund*

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

EDWARD B. HARPER, PH.D. (Cornell University), *Assistant Professor of Anthropology*¹

SYLVIA W. KENNEY, PH.D. (Yale University), *Assistant Professor of Music*

WILLARD FAHRENKAMP KING, PH.D. (Brown University), *Assistant Professor of Spanish*²

FRANK BRYANT MALLORY, PH.D. (California Institute of Technology), *Assistant Professor of Chemistry*

HUGO SCHMIDT, PH.D. (Columbia University), *Assistant Professor of German*

JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Assistant Professor of Chemistry*

WILLIAM PAUL GANLEY, PH.D. (University of Buffalo), *Assistant Professor-elect of Physics*

RICHARD C. GONZALEZ, PH.D. (University of Maryland), *Lecturer and Assistant Professor-elect of Psychology*

JANE COLLIER KRONICK, PH.D. (Yale University), *Instructor and Assistant Professor-elect of Social Work and Social Research*

RUTH C. PEARCE, PH.D. (University of Pennsylvania), *Instructor and Assistant Professor-elect of Russian*

BRUNILDE SISMONDO RIDGWAY, PH.D. (Bryn Mawr College), *Assistant Professor-elect of Classical and Near Eastern Archaeology*

1. On leave of absence for the year, 1961-1962.

2. On leave of absence, Semester II, 1961-1962.

- FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*
- SAMUEL W. BLOOM, PH.D. (University of Wisconsin), *Lecturer in Sociology*
- GALIA S. BODDE (Far Eastern University), *Part-time Lecturer in Russian*
- CHARLES J. COOPER, LL.B. (Harvard University), *Part-time Lecturer in Political Science*
- FREDERICK S. DUNN, PH.D. (Johns Hopkins University), *Visiting Lecturer in Political Science*
- SARAH C. FLEMISTER, PH.D. (Duke University), *Part-time Lecturer in Biology*
- JANE C. GOODALE, PH.D. (University of Pennsylvania), *Lecturer in Anthropology*
- R. MARTIN HARRISON, B.A. (Oxford University), *Lecturer in Classical and Near Eastern Archaeology*
- JAMES J. JOHN, D.S.M. (University of Notre Dame), *Visiting Lecturer in History and Mediaeval Latin*
- M. PAULINE JONES, M.A. (Middlebury College), *Lecturer in French*
- VICENTE LLORÉNS, *Licenciado en Filosofía* (University of Madrid), *Visiting Lecturer in Spanish for Semester I*
- ETHEL W. MAW, PH.D. (University of Pennsylvania), *Part-time Lecturer in Education*
- SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director of Phebe Anna Thorne School and Part-time Lecturer in Education*
- ELIZABETH M. MONGAN, A.B. (Bryn Mawr College), *Visiting Lecturer in History of Art*
- LYLE W. PHILLIPS, PH.D. (University of Illinois), *Part-time Lecturer in Physics*
- JEANNE C. POLLOCK, M.S.W. (University of Pennsylvania School of Social Work), *Lecturer in Social Work*
- ERIKA SCHMIEDBAUER, PH.D. (University of Vienna), *Lecturer in German*

ALAN SILVERA, M.A. (Harvard University), *Lecturer in History*
ROSAMOND KENT SPRAGUE, PH.D. (Bryn Mawr College), *Part-time Lecturer in Greek*

ERIKA ROSSMAN BEHREND, A.M. (University of Pennsylvania),
Research Associate in Psychology

DONALD H. BULLOCK, PH.D. (Columbia University), *Research Associate in Psychology*

HENRY GLEITMAN, PH.D. (University of California), *Research Associate in Psychology*

B. C. JOSHI, D.PHIL. (University of Allahabad), *Research Associate in Chemistry*

PHOEBE S. LEBOY, A.B. (Swarthmore College), *Research Associate in Biology*

MARTHA HELSON WILSON, PH.D. (Yale University), *Research Associate in Psychology*

LARRY STEIN, PH.D. (University of Iowa), *Research Associate in Psychology*

GERALD ACKERMAN, M.F.A. (Princeton University), *Instructor in History of Art*

JANE SCHWARTZ BENJAMIN, PH.D. (Yale University), *Part-time Instructor in History*

ANN EVANS BERTHOFF, M.A. (Radcliffe College), *Part-time Instructor in English*

SANDRA M. BERWIND, M.A. (Bryn Mawr College), *Part-time Instructor in English*

LOUISE DYCKMAN, PH.D. (University of Pennsylvania), *Instructor in Education*

MIGUEL GONZALEZ-GERTH, M.A. (University of Texas), *Instructor in Spanish*

GABRIELLE S. HOENIGSWALD, M.A. (Bryn Mawr College), *Part-time Instructor in Latin*

FREDERIC G. LAYMAN, M.S. (Harvard University), *Instructor in Geology*

LYDIA HALLE LENAGHAN, PH.D. (Bryn Mawr College), *Instructor in Latin*

- RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*
- CATHERINE RODGERS, B.A. (Oxford University), *Instructor in English*
- KATRIN TAEGER, M.A. (Bryn Mawr College), *Part-time Instructor in German*
- BERNARD TOSCANI, PH.D. (University of Pennsylvania), *Instructor in Italian and French*
- WILLIAM W. VOSBURGH, PH.D. (Yale University), *Instructor in Social Work and Social Research*
- AVERY D. ANDREWS, II, M.A. (University of Pennsylvania), *Instructor-elect in History on joint appointment with Haverford College*
- ALICE F. EMERSON, A.B. (Vassar College), *Part-time Instructor-elect in Political Science*
- CLAUDE WILLIAM LA SALLE, II, M.A. (University of Pennsylvania), *Part-time Instructor-elect in English*
- PATRICIA MILLAR, M.S.S. (Bryn Mawr College), *Instructor-elect in Social Work and Social Research*
- MARILYN ZIRK PRYOR, PH.D. (University of Tennessee), *Instructor-elect in Biology*
- PHYLLIS TURNBULL, M.A. (Columbia University), *Instructor-elect in Spanish for Semester II*
- WILLIAM A. WISDOM, M.A. (New York University), *Part-time Instructor-elect in Philosophy*
- FRITZ JANSCHKA, *Akademischer Maler (Akademie der Bildenden Künste), Artist in Residence*
- WILLIAM H. REESE, PH.D. (University of Berlin), *Director of Orchestra*
- ROBERT ANDERSON, B.S. (Drexel Institute of Technology), *Part-time Assistant in Biology*
- ANN HARNWELL ASHMEAD, PH.D. (Bryn Mawr College), *Part-time Assistant in Classical and Near Eastern Archaeology*
- ELIZABETH BANCROFT, A.B. (Vassar College), *Part-time Assistant in English*

- CAROLINE MANNING CUNNINGHAM, M.A. (Wesleyan University),
Part-time Assistant in Music
- CHARLES EVERS, B.S. (Drexel Institute of Technology), *Part-time Assistant in Chemistry*
- STILES DEAN EZELL, A.B. (Lafayette College), *Part-time Assistant in Biology*
- HELEN T. FARR, A.B. (Bryn Mawr College), *Part-time Assistant in Economics*
- MARY ANN FRITZ, M.S. (University of Pennsylvania), *Part-time Assistant in Biology*
- RICHARD A. GILLIS, A.B. (Kenyon College), *Part-time Assistant in Political Science*
- JOAN GRACE, B.S. (Ursinus College), *Part-time Assistant in Physics*
- BEVERLY MARSTERS, A.B. (University of New Hampshire), *Part-time Assistant in Geology*
- JANE R. McCONNELL, Ph.D. (Bryn Mawr College), *Part-time Assistant in Biology*
- MARY PATTERSON MCPHERSON, M.A. (University of Delaware),
Part-time Assistant in Philosophy
- MILLARD MIER, A.B. (Occidental College), *Part-time Assistant in Physics*
- JOAN MULLER, A.B. (Goucher College), *Part-time Assistant in History of Art*
- ELAINE PIMSLER, A.B. (Carleton College), *Part-time Assistant in Philosophy*
- ELIZABETH LUCIA PINNER, M.S.W. (University of Pittsburgh),
Part-time Assistant in Social Work and Social Research
- DOROTHEA J. RHEA, M.A. (Bryn Mawr College), *Part-time Assistant in Mathematics*
- RICHARD SAKURAI, B.A. (Reed College), *Part-time Assistant in Physics*
- JEWEL W. TEMPLETON, A.B. (Wilson College), *Part-time Assistant in Chemistry*
- PRISCILLA WATSON, A.B. (Reed College), *Part-time Assistant in Physics*

Officers of Administration

MARIAN CARTER ANDERSON, B.S. (Simmons College), *Recorder of the College*

CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*

LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*

CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*

PAUL W. KLUG, C.P.A., B.S. (Temple University), *Comptroller*

KATHERINE Y. MASELLA, A.B. (Bryn Mawr College), *Assistant to the Director of Admissions*

CLARISSA WARDWELL PELL, *Executive Director of the Resources Committee*

PATRICIA ONDERDONK PRUETT, M.A. (Bryn Mawr College), *Assistant Dean of the College*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

Library

JANET MARGARET AGNEW, M.A. (University of Manitoba), *Head Librarian*

PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

ELIZABETH AMANN, M.L.S. (Rutgers University), *Assistant in Cataloguing Department*

DOROTHY V. MCGEORGE, B.S.L.S. (Drexel Institute), *Order Librarian*

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LOIS E. WELLS, M.S.L.S. (Drexel Institute), *Assistant in Circulation Department*

Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

Halls of Residence

BARBARA BROOME, A.B. (Bryn Mawr College), *Warden-elect*

JEAN ELDER, B.A. (University of Toronto), *Senior Resident of the Graduate Center*

DULCIE GROVES, B.A. (University of Nottingham), *Warden of Denbigh*

MARLENE HUNT, B.A. (University of British Columbia), *Warden-elect*

HELENE LUCAS, *Licence ès lettres* (University of Paris), *Warden-elect of Wyndham*

MARYANN ROBBINS, M.S. (University of North Carolina), *Warden-elect*

SARAH RUBIN, A.B. (Bates College), *Warden-elect*

ALESANDRA SCHMIDT, M.A. (University of Pennsylvania), *Warden-elect*

JANE WILLIAMSON, M.A. (Bryn Mawr College), *Warden of the Jane Batten House*

Health

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physician*

FRIEDA W. WOODRUFF, M.D. (University of Pennsylvania), *Assistant College Physician*

JOHN F. HOWKINS, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ETHEL GRANT, *Instructor in Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Director*

ELIZABETH PRESTON, M.S.S. (Bryn Mawr College), *Social Caseworker*

ELIZABETH WHEELER, M.S.S. (Bryn Mawr College), *Social Caseworker*

CORNELIA T. BIDDLE, A.B. (Bucknell University), *Part-time Social Caseworker*

ELIZABETH EMLÉN, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

VIRGINIA G. KEEN, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSEN, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

ELI HARMON, M.D. (Tulane University School of Medicine), *Consulting Psychiatrist*

JONAS B. ROBITSCHER, M.D. (George Washington University), *Consulting Psychiatrist*

HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*

Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*

GEORGIANNA ENGSTROM, A.B. (University of Minnesota), *Assistant Teacher*

Committees

The Graduate Committee

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Chairman

DEAN BLISS, *Vice-Chairman*

MR. NAHM

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MR. LATTIMORE

MR. BERRY

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The Graduate Scholarships Committee

DEAN BLISS, *Chairman*

PRESIDENT MCBRIDE, *ex-officio*

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The Graduate School

ADMISSION

THE GRADUATE SCHOOL is open to qualified graduates in liberal arts, men and women, from colleges or universities of acknowledged standing. Application for admission, to be made to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania, should be supported by official transcripts of the student's full academic record and by letters from the dean and from two or more professors of the applicant's undergraduate college. Applications should be filed, complete, by the beginning of the appropriate registration period.

Admission to graduate courses is under the jurisdiction of the various departments which may, at their discretion, require students whose preparation is insufficient to pursue certain introductory courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the prerequisites may on application to the Graduate Committee be enrolled as candidates for the Degrees of Doctor of Philosophy, Master of Arts or Master of Social Service.

Graduate Record Examination. The Bryn Mawr Graduate School recognizes as contributory evidence of the qualifications of a student for admission a record of attainment in the Graduate Record Examination as prepared and administered by the Educational Testing Service. The examination is a convenient method by which a student may supplement transcript records. Applicants for admission to the Graduate School who wish to take the examination should apply directly to the Graduate Record Examination, P.O. Box 592, Princeton, N. J., where full information may be secured and arrangements for taking the test may be made.

REGISTRATION

Every graduate student must register for courses at the Office of the Dean of the Graduate School if possible in the opening week of the semester, certainly within the first two weeks. Permission to take advanced undergraduate and graduate courses must be secured from the various departments. Changes in registration must be approved by the Dean.

Program of Study

THE GRADUATE PROGRAM is planned to give students a small number of hours in the seminar (usually not more than six hours) and ample time for individual work under the guidance of members of the faculty. Graduate students work in seminar rooms and laboratories close to the offices of members of the faculty and have abundant opportunity for conference and discussion.

Seminars and graduate courses are described under the announcements of the Departments. They are open to properly qualified first-year as well as more advanced graduate students.

Three units of graduate work constitute a full program. Instead of a seminar or graduate course, students may take for graduate credit:

1. A supervised unit of graduate work, equivalent to a seminar or graduate course, planned and examined by an instructor but carried on independently by the student. Such work may consist of reading with assigned reports, research with results submitted or a combination of both.
2. An advanced undergraduate course with additional work. Advanced undergraduate courses are sometimes elected to complete the student's prerequisites or to provide essential training in an allied field. One such course, accompanied by additional work, may, with the approval of the major department, be included in the M.A. program. Such undergraduate courses are included with the graduate courses in this Calendar. A full list of undergraduate courses is available in the Calendar of Undergraduate Courses.

Journal Clubs and Colloquia. In many departments the instructors and graduate students meet from time to time to discuss current research or to review recent publications in their field of study. Students will be notified by their respective departments of arrangements for their Colloquia or Journal Clubs.

Prerequisites. The prerequisites for graduate courses are established by the various departments. In special cases, with the approval of the department concerned, work in related subjects may be accepted in lieu of the stated prerequisites.

Grading. Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. The University charges a general fee of \$2.50 for the use of the Library, a \$5.00 library deposit, which is refundable, and fees for lateness. Since the University of Pennsylvania opens early in September, students coming to Bryn Mawr for the first time will not be able to take courses at Pennsylvania until the second semester.

SUMMER WORK

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their research during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of the instructors. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances.

The Degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service

BRYN MAWR COLLEGE awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The course of study for the degree of Doctor of Philosophy at Bryn Mawr College is designed to prepare the candidate for a professional career as a scholar. The course offers the student the opportunity to acquire a broad general background in chosen fields of knowledge and practice in research in these fields. The degree is awarded after the student's general knowledge and ability in research have been tested by examination and by a dissertation.

The candidate for the Ph.D. degree should have ability of high order, intellectual curiosity and critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The regulations for the Ph.D. degree are described in detail in a special pamphlet which will be given to applicants for candidacy. The general requirements, to which should be added those of the various departments, are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.
2. A course of study requiring a minimum of three full years of work beyond the A.B. degree in major and allied fields; for graduates of other colleges, two of these years must be spent in the Graduate School of Bryn Mawr College but for candidates

who have held academic appointments at Bryn Mawr College and occasionally for others this requirement may be reduced by the Graduate Committee; for candidates who hold the A.B. degree from Bryn Mawr College, one full year of graduate work at Bryn Mawr is required. Although there are no formal course requirements for the Ph.D. degree, students will ordinarily find it advisable to complete six or seven units of graduate work.

3. The recommendation of the student as a candidate by the director of the dissertation and the major department and the acceptance of the recommendation by the Graduate Committee. Application for candidacy, on a form to be obtained at the Graduate Office, may be made as early as the spring of the student's first year in the Graduate School.

4. A reading knowledge of two modern languages, tested by written examinations in the translation of texts in the field of the major subject.* These examinations must be passed before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the candidate's major and allied fields. This examination, consisting of several written examinations, and, at the option of the department, an oral examination, is intended to test the candidate's general knowledge of the fields rather than familiarity with particular courses.

6. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Microfilming is accepted as a method of publication.

* See the statements under the Departments for the language requirements. For the Ph.D. in Social Work only one modern language is required.

Students whose mother tongue is not English may, with the approval of their department, be excused from one of these language examinations. (They may not offer their own language.)

THE DEGREE OF MASTER OF ARTS

The degree represents the completion of a coordinated program of graduate work which, for a well-prepared candidate, requires a minimum of a full year of graduate study. Work for the degree may be spread over several academic years which need not be in succession but must be included in a five-year period. Only courses taken at Bryn Mawr College are credited for the degree.

Prerequisites. The prerequisite for the M.A. degree is an A.B. degree or its equivalent from an American college of recognized standing or a degree or certificate of the same standard from a foreign university. The preparation must include such undergraduate work in the candidate's major subject and allied fields as various departments shall require.

Application. The candidate applies for the degree in the department of the major work, must receive the endorsement of the department for the program of work and must be accepted by the Graduate Committee. The application and the program endorsed by the major department must be submitted to the Dean of the Graduate School not later than December 1st of the academic year in which the candidate wishes to take the degree. Application forms are supplied by the Graduate Office.

Language Requirement. A reading knowledge of two modern languages is in general required of all candidates.* Students in Economics and Education may offer Statistics instead of the second language. In Psychology and Sociology, Statistics is required and the language requirement is therefore reduced to one. Candidates whose major work is in a modern language must offer a reading knowledge of two other languages.

The language requirement is met by passing a written examination set by the major department in reading, at sight and with a dictionary, technical material in the candidate's major field.

Examinations in languages, and in the techniques which in certain departments may be substituted for one language, will be held three times each year, in October, January and April. At

* See the statements under the Departments for the departmental language requirements.

least one of the examinations must be taken not later than the October period of the academic year in which the degree is to be received. All departments except Biology, Classical Archaeology, Mathematics and Spanish require that at least one shall be passed by that time. No candidate may receive the degree in any academic year unless both examinations have been passed by the January examination period, or, in special cases approved by the major department and the Graduate Committee, permission has been obtained to postpone one until the April period.

Students are expected to prepare for these examinations before entering upon the work for the M.A. degree and are strongly urged to take both examinations in October. *Students who do not meet the two requirements in languages and techniques in October may find it impossible to carry a full program and complete the requirements for the degree in one year.*

Students whose mother tongue is not English may be excused from one of these language examinations.* Instead they will be asked to take an examination in English at the beginning of the academic year. Later in the first semester the students' departments will be asked to certify that their English meets the departmental requirement. This special regulation for foreign candidates does not prevent a department from refusing to admit students to any seminar for which their language proficiency is inadequate.

Program of Work. The candidate's program must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major department. If undergraduate courses are included in this last unit, they must be supplemented by organized individual work. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School. Candidates may take their three units of work in one major department or two in a major department and one in an allied field. Candi-

* They may not offer their own language.

Foreign students in the Department of Psychology will meet the requirement with Statistics; students in the Department of Education may do so if they prefer; students in the Department of Sociology may do so if their native language is French or German.

dates whose major department conducts a Journal Club or Colloquium are expected to include it in their registration.

Special Field. The candidate shall, in consultation with the major department, select a special field for the M.A. paper and the Final Examination. It is expected that this field will normally relate to one of the seminars or units of graduate work in the candidate's program.

Final Requirements.

1. *Courses.* Before the Final Examination period, candidates must have completed to the satisfaction of their instructors the courses registered for the degree. No candidate will be admitted to the Final Examination if one of these courses is reported as unsatisfactory.

2. *Paper in the Special Field of the Student's Major Subject.* Every candidate must present a paper in the special field. The paper may take the form of a report on a special piece of investigation carried on throughout the year or during a definite period, or of a problem which is assigned to be completed during a specified limit of time.

3. *An Examination.* Every candidate must pass a Final Examination which shall test her ability to place the special field in the general background of the major subject.

The Final Examination may not be taken until

- (1) the language requirements have been met;
- (2) the three units have been reported as satisfactory;
- (3) the paper in the special field has been accepted.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the professional degree of M.S.S. is designed to prepare men and women for Social Casework, Community Organization and Social Research. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in social casework, provision is made for concentration in the following specific fields: Child Welfare, Family Welfare, Medical and Psychiatric Social Work. At the discretion of the

faculty, a few second-year M.S.S. students will be allowed to concentrate in Social Work Research. This concentration involves a specially designed course program and a one-year field study. The latter replaces the normal field instruction requirements in the second year, and the research report deriving from it constitutes the student's thesis.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from an American college of recognized standing, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences is usually required, although in exceptional cases this requirement is waived. There are no language requirements for the M.S.S. degree. All first-year M.S.S. students must pass an examination in statistical concepts given at the end of the non-credit course, Introduction to Statistical Concepts.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework, group work or community organization as the principal course in social work methods. The first-year courses are:

- Social Welfare Policy and Services—Introduction
- Normal Growth and Behavior
- Pathology in Growth and Behavior
- Community Organization I
- Social Group Work I
- Social Research I
- Social Casework I
- Social Casework II or Social Group Work II
- Introduction to Statistical Concepts (non-credit)
- Field Instruction throughout the two semesters in either
Social Casework, Social Group Work or Community
Organization.

The courses in the second year are in part determined by the area of practice of the student, that is, social casework, community organization or social research. The courses required of all students include:

- Public Social Services
- Social Issues and Social Policy
- Thesis Seminar.

Other second-year courses will be selected from the following:

Psychoanalytic Concepts Applied to Social Work Practice

Social Science Concepts and Social Work Practice

Community Organization II and III

Social Change

Social Casework III and IV

Field Instruction during each semester in Community Organization, Research or Social Casework.

Requirements for Degree. Candidates for the M.S.S. degree must have completed a minimum of six units, including designated field work; they must prepare a Master's thesis and pass a Final Examination which tests their ability to place their special fields in the general background of social work.

Special Part-time Program. It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.

RESEARCH IN COMMUNITY WELFARE

With the assistance of a grant from the Lilly Endowment, Inc. an advanced program to train students for community welfare research was established in the fall of 1960. Associated with the Department in this program is the Health and Welfare Council, Inc., Philadelphia.. Applicants may offer a Master's degree in Social Work or a Master's degree in a social science.

The goal of the program is to prepare qualified professional personnel to fill research positions in community welfare planning councils throughout the country. The program includes concurrent graduate study and field instruction in the Research Department of the Health and Welfare Council, Inc., Philadelphia. While this specific program is designed on a one-year basis, it may be developed as part of a plan for the Ph.D. degree.

Residence and Fees

THE GRADUATE CENTER

RESIDENCE for forty-five women graduate students is provided in the Graduate Center which lies at the north end of the campus, about an eight-minute walk from the Library. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five women students the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms—a large living room and the Manning-Smith recreation room—are available to all members of the Club. The dining room, which seats sixty, is open to students living outside the Center who wish to lunch or dine there. For the residents there are smoking rooms and tea pantries. The bedrooms are fully furnished except for curtains and rugs. Bed linen, including blankets, is provided but students should bring their own towels. Because of College fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The amount of the deposit will be deducted from the residence fee; it will not be refunded under any circumstances.

A student who has reserved a room in the Graduate Center will be held responsible for the residence charge unless she sends notice of withdrawal, in writing, to the Dean of the Graduate School before September first. Appropriate reduction or remission of the residence fee will be made if the College is able to reassign the room to another student not already accommodated in the Center. The student herself is not entitled to dispose of the room she leaves vacant. Appropriate reduction or remission will be made for that portion of the residence fee which represents the cost of food. A student in residence who is absent from the College for six weeks or more because of illness will also be granted a proportionate reduction for food. Allowance cannot be made for dietary restrictions.

The regular charge for residence (room, board and health service) for graduate students is \$1000 a year, payable one half

early in the first semester and the other half early in the second semester.

Residence in the Center is for the academic year only—from the opening of college in the fall until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who wish to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will not be accepted at the College before September 15. It should be sent prepaid, addressed to the Graduate Center.

There is no hall of residence for men. They and other non-resident students must make their own living arrangements. Lists of available accommodations may be seen in the Comptroller's Office.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

FEES

The tuition fee for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work, is \$350 a year or \$175 a semester. In the Department of Social Work and Social Research the part-time fee is \$270 per course per year—or \$135 a semester.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field work in the Department of Social Work and Social Research are charged a fee of \$10 a semester for each such course taken during the academic year and a fee of \$10 for summer field work. This fee covers a part of the expenses of field supervision. In addition students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

Students taking undergraduate courses in the sciences (not for graduate credit) are charged laboratory fees at \$10 per course per semester, or \$25 per semester for three courses.

Students whose fees are not paid before November first in the first semester and before March first in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence or dismissal or for any other reason.

The graduation fee for Doctors of Philosophy, Masters of Arts, and Masters of Social Service is \$20.00.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Regular

Tuition Fee\$1000

Residence (including health service) 1000

Contingent

Dispensary Fee (for non-resident students) 15

Social Work Field Work Fee 20

Graduation Fee 20

Expenses, Christmas and spring vacations,
commuting variable

Laboratory Fees for undergraduate courses (not for graduate credit), per course per year 20

GRADUATE CLUB

All graduate students residing in the Center are members of the Graduate Club and non-resident students, men or women, may become members. The organization of the life of the graduate students in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the College as a whole.

EXCLUSIONS

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Fellowships and Scholarships

THE COLLEGE awards, on the basis of academic excellence, about sixty graduate scholarships and fellowships to women who are graduates of accredited colleges or universities. Some awards are open to men on the same basis. The various types of awards are described below.

APPLICATION

Applications for fellowships and scholarships should be made to the Dean of the Graduate School and must be filed complete not later than March first preceding the academic year for which they are desired. The documents are the same as for admission. Blanks are forwarded to all applicants by the Graduate Office. Awards are announced each year on April first and recipients should signify their acceptance or refusal by April fifteenth. Original papers and photographs, sent by applicants in support of their applications, will be returned only if postage is enclosed for that purpose, or specific instructions are given for return by express collect. Testimonials and letters from professors and instructors will not be returned.

Completed applications for scholarships for foreign women must be received not later than January twenty-fifth. The applicants will be informed of the results early in March.

FELLOWSHIPS

Twenty-three Fellowships, value \$2300 each, are offered annually in Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Educational Psychology, English, Geology, German, Greek, History, History of Art, Latin, Mathematics, Mediaeval Studies (the Howard Lehman Goodhart Fellowship), Music, Philosophy, Physics, Political Science (the Justus C. Strawbridge Fellowship), Psychology, Romance Languages (two fellowships), Russian, Social Work and Social Research (the Carola Woerishoffer Memorial Fellowship), and Sociology and Anthropology. They are awarded on the basis of merit and are open to American and Canadian women who are graduates of colleges of good standing, and who have completed at least one full year of graduate work.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year the Alumnae of the College established a fund for a graduate Fellowship in honor of Katharine Elizabeth McBride, President of the College. The Fellowship, open to students in any department, will be awarded from the interest on this fund.

The Margaret Gilman Fund. An additional Fellowship or Scholarship in French, open to both men and women, is awarded from the interest on this fund which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

The Theodore N. Ely Fund. An additional Fellowship or Scholarship in Art or Archaeology is awarded from the interest on this fund which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

The S. Maude Kaemmerling Scholarship was established in 1959 by a gift from the estate of S. Maude Kaemmerling. The income on this fund is to be used for graduate Scholarships and Fellowships.

Fellows by Courtesy

Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.

GRADUATE SCHOLARSHIPS

Twenty-one Graduate Scholarships, value \$1600 each, are offered annually to women for work in any department of the Graduate School. Holders of these scholarships in their first year of graduate work at Bryn Mawr are required to live at the Graduate Center. Others may elect to do so. The stipend covers tuition and part of the residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. In that case tuition and dispensary fees will be deducted from the stipend and the balance paid the student in November and March.

The College also offers several Graduate Scholarships, value \$1600 each, to men. Tuition and dispensary fees will be deducted from the stipend and the balance paid the student in November and March. There is no hall of residence for men.

TUITION SCHOLARSHIPS

Eight scholarships providing free tuition are available to men and women whose homes are in the neighborhood.

SCHOLARSHIPS FOR FOREIGN WOMEN

Ten scholarships are especially designated for foreign women who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend of \$2000 which covers full tuition and board and lodging in the Graduate Center during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) A student who holds a scholarship for a second year may live off campus if she prefers. Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. At times an advanced undergraduate course may meet the student's needs better than a graduate seminar; in that case she will make extra contributions in order to bring the work to the graduate level. Most of the formal work, however, is given in seminars. These are best described as small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to understand it and speak it fluently. For a full statement of the graduate program and requirements, reference should be made to the preceding pages and to the departmental announcements.

The Marguerite N. Farley Scholarships for Foreign Women. Five foreign scholarships, of the value of \$2000, are offered to women from any country outside the United States and Canada.

A Special British Scholarship, of the value of \$2000, is reserved for a candidate from Great Britain sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of \$2100 each, have been established for students whose languages form part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate

language department. The Special Scholarship for French has been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

SCHOLARSHIPS AND FELLOWSHIPS UNDER THE PLAN FOR THE COORDINATION OF THE SCIENCES

The several departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in overlapping fields of science, such as biochemistry, biophysics, geochemistry, geophysics, psychophysics.

Usually three scholarships of the value of \$1600 are offered to qualified students who have had undergraduate training in two or more of the natural sciences and who wish to continue study in some borderline field. Scholarships are, however, also awarded to those students who plan to specialize in only one science, but feel the need for broadening their knowledge in some related science.

Since many students do not have the time to obtain an adequate preparation in two or more sciences during their undergraduate training, provision is also made for a so-called "Fifth Year." Scholarships are offered to those students who want to broaden their undergraduate preparation in several sciences. Courses taken during the Fifth Year will usually consist of undergraduate courses, and such a program, therefore, does not lead to a higher degree in the first year.

Two fellowships of the value of \$2300 each in the same fields are also offered to candidates who, in addition to undergraduate training, have had at least a year of graduate work in science.

These Scholars and Fellows will pay the regular tuition of \$1000 a year. For residence in the Graduate Center an additional \$1000 would be charged.

Occasionally a post-doctoral Research Fellowship is offered to a candidate who wishes to work in a borderline field, as outlined above, or one who, while working in one science, wants

to utilize methods or tools of another science for a specific research problem.

The scholarships and fellowships under the Plan for the Coordination of the Sciences are open to men as well as women.

The Helen Schaeffer Huff Memorial Research Fellowship. This fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be \$3200. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires. The holder of this fellowship may, if she wishes, live in the Graduate Center.

SOCIAL WORK AND SOCIAL RESEARCH

The Carola Woerishoffer Fellowship in Social Work and Social Research, of \$2300, is offered annually to a student in the Department.

The Carola Woerishoffer Scholarship in Social Work and Social Research, of \$1600, is offered annually to a student in the Department.

Agency Fellowships and Scholarships. A number of scholarships ranging in value from \$500 to \$2400 are offered by various agencies in Philadelphia and vicinity to second-year graduate students, men and women, who wish to be candidates for the degree of Master of Social Service. These agency scholarships and fellowships frequently call for field work placement in the agency giving the grant, and in some cases require an agreement relative to employment for one year following the holding of a grant.

Federal Stipends. The United States Public Health Service offers traineeships of \$1800 for first-year students, and \$2000 for second-year students, both men and women. The holders of such stipends must have career objectives in psychiatric social work.

The Office of Vocational Rehabilitation offers traineeships of \$1800 and \$2000 for first- and second-year students respectively. Holders of such stipends must have career objectives in rehabilitation.

Traineeships of \$2400 for the third year and \$3600 for the fourth year of study are also available from the United States Public Health Service to advanced students who meet certain requirements and are beginning work for the Ph.D. Application to the Department for such traineeships is necessary by November first of the year preceding the proposed year of study.

Both local agency stipends and Federal traineeships are awarded to the student by the Department.

The Alumni Association of the Department of Social Work and Social Research usually provides a tuition scholarship open to either first- or second-year students.

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of \$1400 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give half time to the research of the Department, and half time to study and is not permitted to hold any other paid position.

TRAVELLING FELLOWSHIPS

The Fanny Bullock Workman Fellowship, value \$2200, for a year of study or research abroad was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a candidate for the degree of Doctor of Philosophy at Bryn Mawr College who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

The Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology and German Language and Literature,

founded in 1907 by Mrs. Anna Woerishoffer of New York City in memory of her mother, is to be applied to the expenses of study and residence for one year at some German university. It is awarded annually to a candidate who has completed at least one year of graduate study at Bryn Mawr College, on the basis of evidence regarding her ability to conduct independent investigations in the fields of Teutonic Philology or German Literature. The choice of a university is determined by the holder's preference, subject to the approval of the Faculty.

The Ella Riegel Fellowship or Scholarship in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology and only to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

DUTIES OF FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Fellows and Scholars assist occasionally in the conduct of examinations. Holders of fellowships may be asked to give as much as an hour and a half a week to special work for their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Dean of the Graduate School, make their own arrangements to do a limited amount of paid work. Each Travelling Fellow is asked to present a written report of her work during her year on the fellowship. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student's department.

GRADUATE PRIZE

The Susan B. Anthony Memorial Prize, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by the Committee of which the President of the College is chairman. The value of the prize is determined by funds available from the income of the gift to the College.

EMMY NOETHER FELLOWSHIP IN MATHEMATICS

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the U.S.A. or in a foreign country.

GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund from which grants-in-aid may be made. These grants, not to exceed \$400, are given on the basis of need to holders of scholarships to help them meet college expenses. Application forms may be obtained from the Graduate Office; they should be submitted by April fifteenth.

GRADUATE ASSISTANTSHIPS

Teaching Assistantships are available to graduate students in the Departments of Biology, Chemistry, Education, Geology, Physics, Psychology and Social Work. The positions carry salaries of \$1750-\$2000 for half-time work (\$1150-\$1200 for one-third) and include free tuition for half to two-thirds time graduate work. They provide teaching and laboratory experience outside the classroom, mainly in the undergraduate laboratories.

Research Assistantships are available in Chemistry, Physics, Psychology and Social Work. These are usually for half-time work and provide half-time free tuition in addition to salaries of \$1700-\$1800. A few of these positions, in Psychology and Social Work, offer higher salaries.

Other Assistantships, usually for one-third time work and paying \$1150-\$1200, are offered in the Departments of Economics, Education, History, History of Art, Mathematics, Philosophy, Political Science, and Sociology and Anthropology. The duties of assistants differ in different departments. In all departments, the assistant is entitled to carry on graduate study for which tuition is remitted.

Loan Funds

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

The committee in administering this money follows a definite policy, designed to serve the best interests of the students concerned. Loans may be used for any purpose approved by the committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1500.

While the student is in College no interest is charged; after the student leaves College the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, The Deanery, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be observed in awarding such loans:
 - a. To students coming from New Jersey.
 - b. To students coming from Missouri.
 - c. To students coming from any other location who have had not less than one year of residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a Committee appointed by her from time to time.
3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.
4. These loans shall be used primarily to enable the exceptional student to continue her studies which otherwise would be prevented through lack of means.
5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

MEMORIAL LOAN FUNDS

The Bertha Goldstein Memorial Loan Fund, the Rachel Pflaum Memorial Loan Fund and the Ethel Rupert Loan Fund are revolving funds from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans may be made to graduate students in that Department. Loans are made without interest and must be repaid within one year after completion of study at Bryn Mawr.

The Bureau of Recommendations

The College conducts a Bureau of Recommendations for alumnae, students, and former students. This Bureau offers an employment service for permanent, temporary, and part-time positions; and a vocational service for the student body, which includes vocational tests and assistance in choosing a vocation. It also acts as a clearing house for letters of recommendation for those who have registered with the Bureau. These letters will be sent, upon request, to prospective employers and other agencies.

Students of foreign citizenship are advised that government regulations severely limit their employment.

The Library

THE M. CAREY THOMAS LIBRARY now contains over a quarter of a million volumes. The Library has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad. For the use of graduate students there are twelve seminar rooms and, in addition, a limited number of carrels in the stacks. The scientific libraries are described on page 50.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Rooms are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference and current periodicals. There is a large reading room with individual desks.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the two Rare Book Rooms unusual bibliographical items are shelved and displayed: early printed books, manuscripts, first editions, fine press books, and association copies. Exhibitions of the Library's own material and material lent by friends of the Library are displayed here at intervals during the academic year. Here also are incunabula numbering over nine hundred volumes, the gift of Howard L. Goodhart. This collection, known as the Marjorie Walter Goodhart Mediaeval Library and consisting mainly of philosophical and theological works printed in the fifteenth century, is outstanding among college library collections.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue at the University of Pennsylvania volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has recorded over 3,500,000 titles in

the region by which research workers are aided in bibliographical problems outside the scope of any one library. Through this channel the great collections of the University of Pennsylvania, the Free Library of Philadelphia, the Historical Society of Pennsylvania as well as the Library Company of Philadelphia, the American Philosophical Society, the Franklin Institute, the Academy of Natural Sciences, the College of Physicians, Swarthmore College and Temple University are made available. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

Three-college cooperation also augments the facilities of the M. Carey Thomas Library. In the main catalogue are filed author cards for books in the collection of Haverford College, facilitating the use of books in its library. Catalogue cards representing the authors of books pertaining to Russia and significant material collateral to the study of that country are filed for Swarthmore College as well as for Haverford.

ART AND ARCHAEOLOGY COLLECTIONS

A small but valuable group of original works of art, available for study, include Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology contains the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles, and ceramics includes material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

Laboratories

THE natural science departments occupy three buildings. Mathematics, Physics and Psychology are in Dalton Hall, the original science building opened in 1893 and remodeled in 1939 and again in 1958. The Science Center contains the Marion Edwards Park building for Chemistry and Geology and a new building completed in 1958, for Biology. A proposed building for Physics and Mathematics will bring five of the departments together.

In all three buildings there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants made to individual members of the faculty.

In Dalton Hall, there is a machine shop with an expert machinist in charge and a student workshop available to graduate students. Rooms in the Biology Building were especially designed for work with radioactive materials, for microphotography and for glass blowing.

Each science department has its own well-stocked library, which includes the appropriate scientific journals. In addition, the Department of Geology has over 25,000 maps, on deposit from the U. S. Army Map Service. The Department's large collection of minerals has been greatly enhanced by the gift of the Mineral Collection of George Vaux, Jr.

Health

ALL GRADUATE students, whether resident or non-resident, must file a physician's certificate stating that they have been vaccinated against smallpox during the year before entrance to the Graduate School and exhibited a typical or immune reaction to this vaccination. Students who do not have this certificate will be vaccinated at the time of their entrance physical examinations and charged a fee of one dollar. Non-residents will not be permitted to register without this certificate. There is no exception to this rule.

Every entering resident graduate student is required to file at the office of the Dean of the Graduate School, on a blank supplied by that office, a report of a recent medical examination, filled in and signed by a physician.

Resident students must present on a separate blank a statement of immunization against tetanus by toxoid, evidence of a negative Schick test, or immunization against diphtheria, and a Mantoux test within one year of entrance. If the Mantoux test is reported positive a chest X-ray is required. If these tests have not been done by the time the student arrives in Bryn Mawr, they will be done at the time of the initial physical examination at a fee of one dollar for each test and the chest X-ray will be taken at Bryn Mawr Hospital at the student's expense.

Every resident graduate student must file a certificate stating that her eyes have been examined by an ophthalmologist within six months before entrance to the Graduate School. Failure to comply with the above rule entails an examination by one of the college consultants for which the student will be charged as a private patient by the ophthalmologist making the examination.

Every entering resident graduate student is examined by the College physician, with reference to physical development and general health. Second- and third-year residents whose health records have been approved by a College physician are not examined. Any graduate student who at the time of the examination or at any time during the year is not in good health is placed on the health supervision list.

The College maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The College physicians and psychiatrists may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is necessary. The Infirmary is open when college is in session and in the spring vacation. It is closed during Christmas vacation.

The residence charge paid by each resident graduate student entitles her to treatment in the college dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College physicians during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. The fee for each day in the Infirmary after the seven-day period is nine dollars. In case of contagious disease special nursing is obligatory and the student must meet this expense.

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$15 for a full year starting October 1st. Students should apply to the Comptroller of the College.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of \$15, which entitles them to care and consultations by the College physicians and psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. *Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.*

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

Announcement of Courses

The following is a list of the seminars and graduate courses and of undergraduate courses which can be expanded to count for graduate credit. It is the practice of most departments to vary the graduate courses and seminars from year to year. The announced order may be changed either because of changes in the teaching staff or in order to meet the needs of the students. For a full announcement of undergraduate courses see the Calendar of Undergraduate Courses.

Undergraduate courses in each department are numbered according to the following system:

201, 202, etc. . . . indicate second-year undergraduate courses.

301, 302, etc. . . . indicate advanced undergraduate courses.

“a” the letter “a”, following a number, indicates
a half-course given in the first semester.

“b” the letter “b”, following a number, indicates
a half-course given in the second semester.

“c” the letter “c”, following a number, indicates
a half-course given two hours a week
throughout the year.

[] Square brackets enclosing the titles of
courses indicate that, although the
courses are regular parts of the program,
they are not given in the current year.

Biology

PROFESSORS:

MARY S. GARDINER, PH.D., *Chairman*
L. JOE BERRY, PH.D.
JANE M. OPPENHEIMER, PH.D.

DEAN OF THE

GRADUATE SCHOOL

AND PROFESSOR

OF BIOLOGY:

ELEANOR A. BLISS, SC.D.

ASSOCIATE PROFESSOR:

ROBERT L. CONNER, PH.D.¹

INSTRUCTOR:

MARILYN ZIRK PRYOR, PH.D.

ASSOCIATE PROFESSOR

OF PHYSICS:

ROSALIE C. HOYT, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Biology, Zoology or Zoology and Botany, including courses in General and Organic Chemistry. Some preparation in Mathematics and Physics is desirable. Students with majors in other subjects may be admitted but will be required to make up any deficiencies in their preparation in Biology before being admitted to graduate courses.

Major and Allied Subjects. Candidates for the M.A. and Ph.D. degrees may specialize in Biochemistry, Cytology, Experimental Embryology or Physiology but must take work from areas not chosen for specialization. Allied subjects may also be selected from fields in Chemistry and Physics and in special cases, with the approval of the Graduate Committee, from other related fields.

Language Requirements. Candidates for the M.A. and Ph.D. degrees should offer French and German. Other languages may be accepted by special permission of the Department and the Graduate Committee.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the

1. On sabbatical leave for the year 1961-62.

work may be completed in one year by full-time students, it may be extended over two or more years and students with incomplete preparation may find such extension necessary. The Final Examination consists of a three-hour written examination covering the areas of study and an oral examination concentrating particularly on the interpretation and significance of the experimental problem.

Examinations for the Ph.D. The Preliminary Examination for the Ph.D. consists of three written examinations, each of four hours' duration, and an oral examination of one to two hours. These examinations will cover the areas included in the course work in the major and allied fields. After the subject of the dissertation has been decided, the student will meet with the faculty of the Department to outline and discuss the subject and the proposed plan of research. The Final Examination is oral, covering the subject of the dissertation in relation to general biological problems.

SEMINARS AND GRADUATE COURSES

All advanced undergraduate courses may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor and completed by the student.

Seminars are offered in the following fields. The topics considered in any year are selected in accordance with the needs and desires of the students enrolled.

Mr. Conner: *Biochemistry (offered in 1962-63)*

Selected topics in intermediary metabolism.

Biochemical techniques.

Cellular Physiology.

Miss Gardiner: *Cytology (offered in 1962-63)*

Cell structure and function.

Cytological aspects of normal and abnormal growth.

Histogenesis.

Problems in mitosis and meiosis.

Miss Oppenheimer: *Experimental Embryology (offered in 1961-62)*

Factors controlling growth and differentiation.

Form and function in animal development.

Gastrulation and organogenesis in vertebrates.

Morphogenesis in invertebrates.

Mr. Berry: *Physiology* (offered in 1961-62)

Kinetics of biological reactions.

Mechanisms of defense against infectious diseases.

Physiological techniques.

Physiology of micro-organisms.

Bacteriology

Miss Bliss: *Bacteriology* (Semester I, 1961-62)

Bacteria and chemotherapeutic agents.

ADVANCED UNDERGRADUATE COURSES

301. *Theories of Heredity*: Miss Gardiner.

[302. *Developmental Physiology*: Miss Oppenheimer.]

[303. *Physiology of Micro-organisms*: Mr. Berry.]

305. *Biochemistry*: Mrs. Pryor.

306. *Biophysics*: Miss Hoyt.

Chemistry

PROFESSOR:

ERNST BERLINER, PH.D.,¹ *Chairman*

ASSOCIATE PROFESSOR:

GEORGE L. ZIMMERMAN, PH.D.

ASSISTANT PROFESSORS:

FRANK B. MALLORY, PH.D.

JOSEPH VARIMBI, PH.D.

LECTURER:

FRANCES BONDHUS BERLINER, PH.D.

Appointment to be announced.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate preparation in Chemistry including courses in general inorganic, analytical (qualitative and quantitative), organic and physical chemistry, college Physics and Mathematics (calculus). Students whose undergraduate training in Chemistry is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Major and Allied Subjects. Students may specialize in either Organic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics,

1. On sabbatical leave, semester II, 1961-62.

Physics, Inorganic Geology and a branch of Chemistry different from that of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department.

Language Requirements. Candidates for the M.A. or Ph.D must offer German, and either French or Russian.

Program and Examination for the M.A. Candidates will usually offer one seminar in their special field, another seminar or advanced undergraduate course in Chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally be expected to devote a large proportion of their time to the execution and interpretation of the experimental work, carried out under the supervision of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in Chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of two four-hour written examinations, one of which is in the major subject and one in the minor subject, and a third, oral examination, which constitutes a defense of a number of research proposals which had been submitted previously by the student. Four such proposals are required, two of which may be related to the student's thesis. For students who offer a minor subject in a department other than Chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that the same one is usually not repeated

within a three-year period. The topics listed below are given in one-semester seminars, counting one half unit of credit each.

Mr. Berliner: *Organic Chemistry*

Physical Organic Chemistry.

Physical-Organic Aspects of Aromatic Chemistry.

Structure and Physical Properties of Organic Compounds.

Mrs. Berliner: *Organic Chemistry*

Chemistry of Heterocyclic Compounds.

Natural Products.

Mr. Mallory: *Organic Chemistry*

Organic Photochemistry.

Radical Reactions.

Recent Methods in Organic Synthesis.

Mr. Varimbi: *Inorganic and Physical Chemistry*

Inorganic Chemistry.

Statistical Thermodynamics.

Theory of Solutions.

Mr. Zimmerman: *Physical Chemistry*

Chemical Kinetics.

Introduction to Chemical Physics.

Quantum Theory.

Biochemistry: See under Biology.

SELECTED UNDERGRADUATE COURSES

301 [a and b]. *Inorganic Chemistry*: Mr. Varimbi.

302 [a and b]. *Advanced Organic Chemistry*: Mr. Mallory and Mrs. Berliner.

303a. *Chemical Thermodynamics*: Mr. Zimmerman.

303b. *Quantum Mechanics of Atoms and Molecules*: Mr. Green. (At Haverford College.)

304a. *Applied Mathematics for Chemists*: Mr. Zimmerman, Mr. Varimbi.

Colloquium. All members of the Department and the graduate students, and often outside speakers, meet every week to discuss current research in chemistry.

Classical and Near Eastern Archaeology

ASSOCIATE PROFESSOR: MACHTELD JOHANNA MELLINK, PH.D.,
Chairman

ASSISTANT PROFESSOR: BRUNILDE SISMONDO RIDGWAY, PH.D.

LECTURER: R. MARTIN HARRISON, B.A.

ELLA RIEGEL

MUSEUM ASSISTANT: ANN HARNWELL ASHMEAD, PH.D.

PROFESSOR OF

ANTHROPOLOGY:

FREDERICA DE LAGUNA, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin or History of Art. It is desirable that all students should have some knowledge of Greek.

Allied Subjects: Greek and Latin Language and Literature; an ancient Near Eastern Language and Literature; History of Art; Ancient History; Ancient Numismatics; Anthropology; a science integrated with the work of the major subject.

Language Requirements. German and one other modern language for the M.A.; for the Ph.D., a thorough reading knowledge of German and a reading knowledge of a second foreign language.

Program and Examination for the M.A. Three units of work in Archaeology or in Archaeology and an allied field. The Final Examination is written, four hours.

Program and Examinations for the Ph.D. There is no fixed course of study or time requirement for the degree; but at least one of the preparatory years should be spent at some Mediterranean center such as Athens or Rome, and at least one summer should be devoted to European museums. (The Department has in its award the Riegel Fellowship for study abroad.) Before being permitted to take their preliminary examinations, candidates must satisfy their instructors that they are familiar with the general scope and method of archaeological study, including excavational research; that they know where the original source materials are; and that they can make practical use of bibliographical references. They must also satisfy the Department by

written examination that they have a general reading knowledge of ancient Greek or an ancient Near Eastern language.

The Preliminary Examination consists of four four-hour papers in such special fields as Greek and Roman sculpture, ancient architecture, Greek vase painting, numismatics, topography of classical sites, Aegean prehistory, Near Eastern archaeology, ancient Italy. One of the papers may be chosen from an allied subject; but none may deal with the same specific field as the dissertation, since this will be included in the final oral examination.

Cooperation with the Department of Classical Archaeology at the University of Pennsylvania. Attention is drawn to the courses in Classical Archaeology offered by the University of Pennsylvania. Under the Reciprocal Plan, students at Bryn Mawr College may register for a unit of work at the University of Pennsylvania or pursue research at the University Museum.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss Mellink:

Aegean Archaeology.

Hittite Art and Archaeology.

Oriental Relations of Early Greek Art.

The Archaeology of Syria.

Mrs. Ridgway:

Archaic Greek Sculpture.

Greek Architectural Sculpture.

Greek Sculpture of the Fourth Century B.C.

Mr. Harrison:

Problems in Roman Sculpture.

Problems in Roman Architecture.

ADVANCED UNDERGRADUATE AND FREE ELECTIVE COURSES

[202b.* *Cultural History of Archaeology*: Miss Mellink.]

203a. *Greek Sculpture*: Mrs. Ridgway.

203b. *Later Greek and Roman Sculpture*: Mr. Harrison.

301a. *Ancient Architecture*: Mr. Harrison.

301b. *Ancient Painting*: Mrs. Ridgway.

[302a. *The Greek Style in Art*: Miss Mellink.]

303. *Anatolian and Syrian Archaeology*: Miss Mellink.

Comparative Philology and Linguistics

PROFESSOR OF

ENGLISH PHILOLOGY: STEPHEN JOSEPH HERBEN, LITT.B., PH.D.

PROFESSOR OF ITALIAN: ANGELINE HELEN LOGRASSO, PH.D.

PROFESSOR OF SPANISH: FRANCISCO AYALA, D. en D.

VISITING PROFESSOR

OF FRENCH: WILLIAM J. ROACH, PH.D.

LECTURER IN GERMAN: ERIKA SCHMIEDBAUER, PH.D.

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject.

Prerequisites. The prerequisite is a good undergraduate major in any language or literature. For courses in Philology, see statements under the Departments of English, French, German, Italian and Spanish.

Economics

PROFESSORS:

MILDRED B. NORTHROP, PH.D.,
Chairman

JOSHUA C. HUBBARD, PH.D.

ASSOCIATE PROFESSOR:

MORTON S. BARATZ, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Economics with work in related fields such as History and Political Science. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Allied Subjects. Most subjects in the fields of the other social sciences, History and Philosophy, are acceptable as allied work. Mathematics, Statistics and Accounting are not only acceptable as allies but an adequate knowledge of one or more of these subjects is necessary to advanced work in Economics.

Language Requirements. For the Ph.D. two modern languages. For the M.A. two modern languages or one modern language and advanced statistics.

Program and Examination for the M.A. The program consists of three units of work in Economics or two in Economics and one in an allied field. One unit must be in Economic Theory. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examinations for the Ph.D. The Preliminary Examination consists of four three-hour written examinations, two of which must be in Economic Theory and The History of Economic Thought. The other two fields are selected by the student in consultation with members of the Department. Candidates for the Ph.D. are expected to have an adequate knowledge of Statistics and Mathematics and in some cases of Accounting. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study.

Miss Northrop:

Comparative Economic Systems.
The Development of Underdeveloped Areas.
The History of Economic Thought.
International Economics.

Mr. Hubbard:

Business Cycles and Full Employment.
Contemporary Economic Theory.
Economic Dynamics.
Money and Banking.

Mr. Baratz:

Government and Business.
Industrial Structure and Market Behavior.
Prices and Price Theory.

SELECTED UNDERGRADUATE COURSES

- [301a. *History of Economic Thought*: Miss Northrop.]
- 301b. *Contemporary Economic Thought*: Mr. Hubbard.
- 302a. *Comparative Economic Systems*: Miss Northrop.

Journal Club. Students and members of the faculty in the Department together with those in the Departments of History and Political Science meet four or five times a year to discuss research in progress, or recent books or projects of interest.

Education and Child Development

PRESIDENT OF THE

COLLEGE:

KATHARINE ELIZABETH MCBRIDE,
PH.D., LL.D., L.H.D., Sc.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D.,
Chairman

LECTURER AND DIRECTOR,

THORNE SCHOOL: SUSAN E. MAXFIELD, M.S.

LECTURER:

ETHEL W. MAW, PH.D.

INSTRUCTOR:

LOUISE DYCKMAN, PH.D.

ASSISTANT:

LELIA BRODERSEN, M.A.

The program prepares students for college teaching and research in Educational Psychology and Child Development, for child guidance, for school psychology, school counseling and for teaching in the schools. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed. The chief focus is upon learning in the family and the school.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in Psychology and are qualified in a subject matter field. Foundation work for teaching in the elementary school is available. A sequence leading to specialization in elementary school counseling with supervised field work in selected schools is open to qualified students. Under the reciprocal plan with the University of Pennsylvania (see page 27) the equivalent of one seminar may be taken at that institution.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate preparation in the liberal arts which must include work in General Psychology. Students whose

undergraduate training in Psychology is not adequate will be required to take such undergraduate courses as seem necessary.

Major and Allied Subjects. Candidates for either advanced degree are expected to become competent in several different areas within this specialization. These areas are child development, learning, measurement and guidance, secondary education, the school as a social institution, and history and philosophy of education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. The allied subject may be chosen from the fields of Psychology, Sociology, Anthropology or Philosophy.

Requirements in Languages and Statistics. French and German, for the Ph.D.; candidates for the M.A. must either (1) pass examinations in French and German or (2) pass an examination in French or German and demonstrate a working knowledge of statistics. Candidates for the Ph.D. will be required to demonstrate a working knowledge of statistics. The statistics requirement for both degrees may be satisfied by passing an approved course or an examination.

Program and Examination for the M.A. Candidates will normally offer three units of graduate work in Education although one of three may be taken in an allied field. The Final Examination consists of two three-hour written examinations—one in each field offered, and a one-hour oral examination.

Examination for the Ph.D. The Preliminary Examination consists of four written examinations in special fields, one of which may be in an allied field, and an oral examination on the dissertation.

THE PHEBE ANNA THORNE SCHOOL AND THE CHILD STUDY INSTITUTE

The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three- and four-year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early school development.

The Department also operates the Child Study Institute, a psychological and guidance center where problems of learning and behavior are studied and remedial measures planned and carried out for parents and children. The service is given by a

staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate in the work at various levels of responsibility. Referrals from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and social agencies give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, play therapy and student observation.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss McBride:

The American School.

Mrs. Cox:

**Advanced Clinical Evaluation (including the Projective Techniques).*

Principles of School Guidance.

Problems of Child Development.

Adolescent Development.

Mrs. Dyckman:

The School as a Social Institution.

**The Psychology of Exceptional Children.*

**Diagnosis and Treatment of Learning Problems.*

**The Individual.*

Miss Maxfield:

**Developmental Psychology.*

**Early Childhood Education.*

**Growth and Learning in the Kindergarten.*

Mrs. Maw:

Educational Psychology.

Curriculum of the Elementary School.

History and Philosophy of Education.

**Research and Measurement in Education and Child Development.*

* Laboratory practice required.

Appointment to be announced:

Communication and the Counseling Process.

Supervised counseling experience in the public school: 18 hours per week for two semesters.

SELECTED UNDERGRADUATE COURSES

[201a. *Educational Psychology*: Mrs. Cox.]

202a. *Child Psychology*: Mrs. Cox.

Prerequisite: General Psychology. Experience in the Phebe Anna Thorne School required, two hours per week.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

These courses satisfy the practice-teaching requirement of most states. Plans for registration should be made in the spring or summer before the student plans to take the course so that appropriate arrangements for the practice-teaching assignment can be made. Laboratory: 12 hours per week supervised practice teaching.

CERTIFICATE TO TEACH

Requirements for the state certificate to teach in the public secondary school can be met by the appropriate selection of courses in this Department. Though each state has its own requirements, most follow the same pattern, namely the Bachelor of Arts degree with emphasis upon a content area offered in the secondary school plus eighteen semester hours of professional preparation for teaching. At Bryn Mawr the suggested sequence includes General Psychology followed by Principles of Teaching and Educational Psychology. The student then takes either History and Philosophy of Education or Child Psychology, depending upon her interest and prior training. Required of all is Principles of Teaching in the Secondary School which includes as its laboratory, twelve hours a week of supervised practice teaching in the public school. Much of the basic work leading to the elementary school certificate is offered by the Department. Additional required courses may be taken at the University of Pennsylvania.

Fulfillment of certification requirements does not fully satisfy requirements for the Master of Arts degree, but because there is some overlap, an able full-time student can meet the requirements for both the certificate and the degree in three semesters.

English

PROFESSORS:

K. LAURENCE STAPLETON, A.B.,
Chairman

STEPHEN JOSEPH HERBEN, B.LITT., PH.D.

BETTINA LINN, M.A.

ARTHUR COLBY SPRAGUE, PH.D.

MARY KATHARINE WOODWORTH, PH.D.

ASSOCIATE PROFESSORS:

WARNER B. BERTHOFF, PH.D.

ISABEL GAMBLE MACCAFFREY, PH.D.¹

ASSISTANT PROFESSORS:

JAMES A. BRODERICK, PH.D.

ROBERT B. BURLIN, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in English (or its equivalent) consisting of a critical and historical study of several periods of English Literature. Students working in the mediaeval period must have a reading knowledge of Latin. For other students this is strongly recommended. Students must have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy.

Allied Subjects. Any language and literature, classical or modern European; English Philology; American Literature; Philosophy; History, mediaeval or modern; and the History of Art.

Language Requirements. French and German. In special cases, another modern language may be substituted for German, by permission of the Department.

Program and Examination for the M.A. Three units of work in English or two in English and one in an allied field. The Final Examination is written, four hours in length.

Examinations for the Ph.D. The Preliminary Examination is in five parts: four written (from three to four hours each) and an oral (one to two hours). The candidate whose major interest is in the mediaeval period must take at least one examination in the modern period; the candidate whose major interest is in the modern period must take at least one examination in the medi-

1. On sabbatical leave for the year 1961-62.

aeval period. One examination may be in an allied field. The Final Examination (oral, from one to two hours) is in the field in which the candidate has written her dissertation.

SEMINARS AND GRADUATE COURSES

English Literature

Mr. Herben (One of the following seminars) :

Beowulf and the Old English Lyrics.

Chaucer.

Middle English Romances.

Old English Christian Poetry.

Mr. Burlin:

Chaucer and His Contemporaries.

Mr. Sprague (One of the following seminars) :

Restoration Drama.

Shakespeare.

Miss Stapleton:

1961-1962: Studies in Poetry.

1962-1963: Milton.

Miss Woodworth:

1961-1962: Literature of the Eighteenth Century.

1962-1963: Contemporary Literature.

Mr. Broderick:

1961-1962: Victorian Writers.

1962-1963: The Romantic Period.

Mr. Berthoff:

Studies in American Literature.

A Seminar in Philology for students of English is offered in the Department of German (see p. 74).

SELECTED UNDERGRADUATE COURSES

201. *English Literature of the Middle Ages*: Mr. Herben.

202. *Shakespeare*: Mr. Sprague.

203. *The Romantic Period*: Mr. Broderick.

[204. *The Victorian Period*: Mr. Broderick.]

205. *Representative English Novelists*: Miss Linn.

206a. *English Drama from the Restoration to Robertson*: Mr. Sprague.

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

208. *American Literature*: Mr. Berthoff.
 212b. *Blake*: Miss Woodworth.
 [213a. *Mediaeval Narrative*: Mr. Herben.]
 214a. *Sixteenth Century Prose*: Miss Rodgers.
 300. *Studies in Middle English Literature*: Mr. Burlin.
 [301a. *Old English*: Mr. Herben.]
 [302a. *The Drama from the Beginnings to 1642*: Mr. Sprague.]
 [303b. *English Poetry from Spenser to Donne*: Mr. Sprague.]
 304. *The Seventeenth Century*: Miss Stapleton.
 [305. *The Eighteenth Century*: Miss Woodworth.]

French

VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSOCIATE PROFESSORS:	MARIO MAURIN, PH.D., <i>Chairman</i> MICHEL GUGGENHEIM, PH.D.
LECTURER:	M. PAULINE JONES, M.A.
INSTRUCTOR:	BERNARD TOSCANI, PH.D.
	Appointment to be announced.

Special Requirements for Graduate Work
 (for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school.

Major and Allied Subjects. Students may specialize either in Old French Philology and Literature or in Modern French Literature. If the major field is Old French, advanced work in Modern French Literature may be offered as an allied subject and vice versa. The other allied subjects accepted by the Department are: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

Language Requirements. German, and either Italian or Spanish. Candidates for the M.A. may substitute for the Italian or Spanish examination evidence of extensive training in Mediaeval Latin or Advanced Classical Latin.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit, graduate or undergraduate, in either French or an allied field. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

Program and Examinations for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination conducted in English. Candidates whose major field is Old French are expected to present evidence of a general knowledge of Modern French Literature and to take one examination in that field and vice versa. Before being admitted to the Preliminary Examination candidates must satisfy the Department that they have an adequate command of spoken French.

SEMINARS AND GRADUATE COURSES

The introductory course in Old French is offered in each year. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of Modern French Literature are given in each year, so arranged that the same one will not be given in successive years. The seminars, which are conducted in French, are selected from the following:

Old French

Mr. Roach:

Introduction à la littérature du moyen âge, présentation systématique des éléments de grammaire historique.

Modern French Literature

Mr. Guggenheim:

*Le moi dans la littérature française de Montaigne à Gide.
Rousseau et le Prérromantisme.
Balzac et Flaubert.
Stendhal.*

Miss Jones:

*Baudelaire.
Siège et Mallarmé.*

Mr. Maurin:

*Aspects de la solitude dans la littérature française.
Rabelais et Montaigne.
Arts Poétiques de Mallarmé au Surréalisme.
Gide.*

During the first semester one of the following courses is offered by the Department:

Problems and Methods of Research in French Literature.
Representative French Books.

All candidates for the M.A. and Ph.D. degrees in French are advised to elect these courses, which carry no credit.

Journal Club. During the second semester members of the Department and graduate students meet at intervals to discuss research in progress, or recent books and articles of interest. Some of these meetings are held jointly with the Departments of Italian and Spanish.

SELECTED UNDERGRADUATE COURSES

301. *French Poetry from Villon to Valéry:* Mr. Maurin, Miss Jones.
 [302. *French Drama:* Mr. Guggenheim, Mr. Maurin.]
 [303. *The French Novel from 1700 to 1950:* Mr. Guggenheim.]
 304. *French Essayists and Moralists:* Mr. Maurin.

Geology

PROFESSORS:

EDWARD H. WATSON, PH.D.,
Chairman

LINCOLN DRYDEN, PH.D.

DOROTHY WYCKOFF, PH.D.

INSTRUCTOR:

FREDERIC G. LAYMAN, M.S.

Special Requirements for Graduate Work
 (for the general requirements, see pp. 28-34)

Prerequisites. A course in General Geology and at least one course from each of the larger fields: Physical Geology and Paleontologic-stratigraphic Geology. Training in the allied sciences of Physics, Chemistry, Biology and Mathematics is necessary.

Major and Allied Subjects. Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

Language Requirements. For the M.A. and the Ph.D., German and one other modern language.

Program and Examination for the M.A. Three units of work, of which one will usually be a special piece of field or laboratory research. The Final Examination consists of a four-hour written test and a one-hour oral.

Program and Examinations for the Ph.D. Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve a combination of field mapping or collecting, together with laboratory study. The number of units of class work to be taken will depend on the student's preparation. The Preliminary Examination will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

SEMINARS AND GRADUATE COURSES

At least three seminars are offered each year, to be selected from the following:

Mr. Watson and Miss Wyckoff: *Petrology*

Selected subjects in the structure, physical chemistry and origin of the igneous rocks.

Miss Wyckoff: *Metamorphism*

The physical and chemical processes of metamorphism, accompanied by regional studies.

Mr. Watson, Miss Wyckoff, Mr. Layman: *Petrographic Methods*

This is largely a course in laboratory instruction and in general will accompany the seminars in Petrology and Metamorphism. Special techniques such as the universal stage, X-ray analysis, mechanical separations from rocks and petrofabric analysis will be taught.

Mr. Dryden: *Stratigraphy*

A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr. Watson, Miss Wyckoff: *Structural Geology*

The analysis of regional structures, generally undertaken with reference to a field problem.

Mr. Watson: *Mineralogy*

The optical, chemical and X-ray study of selected mineral groups.

Mr. Dryden: *Sedimentation*

A study of the origin of sedimentary rocks; their source, transportation and deposition.

Mr. Layman and Mr. Watson: *Geochemistry*

A study of the distribution of elements, crystal structure and chemistry, mineral equilibria, et cetera.

SELECTED UNDERGRADUATE COURSES

[301. *Structural and Field Geology*: Mr. Watson.]

302. *Stratigraphy*: Mr. Dryden.

303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Miss Wyckoff, Mr. Watson.

305. *Geography*: Miss Wyckoff.

306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.

German

ASSOCIATE PROFESSOR: CHRISTOPH E. SCHWEITZER, PH.D.,
Chairman

ASSISTANT PROFESSORS: MARTHA M. DIEZ, M.A.
HUGO SCHMIDT, PH.D.

LECTURER: ERIKA SCHMIEDBAUER, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in German or an equivalent preparation.

Major and Allied Subjects. Students may specialize in either German literature or Germanic philology. One of these two fields or an area in the humanities, especially the literatures, may serve as the allied subject.

Language Requirements. Normally French and Latin for the M.A. and Ph.D. For the M.A. another language may substitute for Latin.

Program and Examination for the M.A. The program consists of one or two courses in literature and one in philology. The third

unit may be in an allied field. In addition to acquainting the student with the field in general, the M.A. program introduces various methods of literary criticism. Every candidate must present a paper which represents satisfactory evidence of independent research. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examination for the Ph.D. Every candidate must fulfill certain requirements in German literature and Germanic philology. Those majoring in Germanic philology will select the following courses: Comparative Indo-European, Gothic, Old High German, and one of the following: Old Saxon, Old English, or Old Norse. Work in German dialects, structural linguistics, and a non-Indo-European language is recommended. Those majoring in German literature will normally take one unit each in the mediaeval, classical, and modern periods, as well as at least one genre course. Under the guidance of members of the Department each student will engage in independent reading and research to supplement the course work. The Department encourages interdepartmental research projects and draws attention to the Ottendorfer Research Fellowship for study at a German university. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

SEMINARS AND GRADUATE COURSES

The courses offered are selected from the following:

Mr. Schweitzer:

German Baroque Literature.

Goethe and Schiller.

The "Bildungsroman."

Mr. Schmidt:

Lyric Poetry Since Goethe.

The Modern German Novel.

Methods of Literary Criticism.

Miss Schmiedbauer:

Introduction to Indo-European.

History of the German Language.

Middle High German Literature.

SELECTED UNDERGRADUATE COURSES

- [301. *Introduction to Germanic Philology: Miss Schmiedbauer.*]
- 302. *German Language and Literature of the Middle Ages: Miss Schmiedbauer.*
- [303. *The Classics of the Nineteenth Century: Mr. Schmidt.*]
- 304. *Modern German Literature: Mr. Schmidt.*
- [305. *The German "Novelle": Mr. Schweitzer.*]
- [306. *The German Drama: Mr. Schmidt.*]
- [307. *German Poetry: Mr. Schmidt.*]

Greek

PROFESSORS:	RICHMOND LATTIMORE, PH.D., LITT.D. MABEL L. LANG, PH.D., <i>Chairman</i>
LECTURER:	ROSAMOND KENT SPRAGUE, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek will have some knowledge of Latin.

Allied Subjects. Any literature, ancient or modern, Ancient History, Ancient Philosophy, Classical Archaeology, Comparative Philology.

Language Requirements. French and German.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry, Lyric Poetry, Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history.

SEMINARS AND GRADUATE COURSES

Mr. Lattimore:
Tragedy.

Miss Lang:
Historians.

SELECTED UNDERGRADUATE COURSES

301. *Thucydides and Comedy*: Mr. Lattimore.
[302. *Early Greek Literature: History and Criticism*: Mr. Lattimore.]

History

PROFESSORS:	CAROLINE ROBBINS, PH.D., <i>Chairman</i> FELIX GILBERT, PH.D.
ASSOCIATE PROFESSORS:	ARTHUR P. DUDDEN, PH.D. DAVID J. HERLIHY, PH.D. ¹
VISITING LECTURER:	JAMES J. JOHN, D.S.M.
LECTURER:	ALAN SILVERA, M.A.
INSTRUCTORS:	AVERY D. ANDREWS, II, M.A. JANE SCHWARTZ BENJAMIN, PH.D.

PROFESSOR OF LATIN:	THOMAS ROBERT SHANNON BROUGHTON, PH.D.
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1. On sabbatical leave for the year 1961-62.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. A good undergraduate preparation in general History, the humanities and the social sciences. Students who wish to work in seminars in the ancient or mediaeval fields must be able to read Latin. Those planning work in Modern European History must have a reading knowledge of one modern language, preferably French or German.

Major and Allied Subjects. Students may work in Ancient, Mediaeval or Modern European History as well as in English and American. Most subjects in the field of History, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable to the Department.

Language Requirements. Two languages are required for the M.A. and for the Ph.D. degree. Preference is given to French and German and substitutions for either of these languages may be made only with the consent of the Department.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field. The Final Examination is written and usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which some aspects of historiography are studied. The Preliminary Examination tests the student's competence in four general fields of History, or in three fields of History and one field in an allied subject. For example, work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession.

Mr. Broughton: *Ancient History*.

Mediaeval and Renaissance History

Mr. John: Mediaeval Historical Literature.

[Mr. Herlihy. Mediaeval Institutions.]

[Mr. Gilbert: Intellectual and Political Problems in the Age of the Renaissance and Reformation.]

British History

Miss Robbins: Topics in the History of the Period 1649-1783.

American History

Mr. Dudden: Topics in the History of the United States.

Modern European History

Miss Robbins: Eighteenth Century Life and Thought.

Mr. Gilbert: Topics in the Political History of the Twentieth Century.

Journal Club. Students and members of the faculty in the Department together with those interested in the Departments of Economics and Political Science meet four or five times a year to discuss research in progress, or recent books and projects, or to entertain visiting scholars.

SELECTED UNDERGRADUATE COURSES

301. *Europe in the Twentieth Century*: Mr. Gilbert.

303a. *The Expansion of the American Nation*: Mr. Dudden.

[303b. *The American People in the Recent Past*: Mr. Dudden.]

305. *Renaissance and Reformation*: Mr. Gilbert.

306a. *The Enlightenment*: Miss Robbins.

306b. *Great Historians*: Miss Robbins.

History of Art

PROFESSORS: ALEXANDER COBURN SOPER, M.F.A., PH.D.¹
CHARLES MITCHELL, M.A., B.LITT.

ASSOCIATE PROFESSORS: JAMES W. FOWLE, PH.D., *Chairman*
WILLIAM C. LOERKE, M.F.A., PH.D.

INSTRUCTOR: GERALD M. ACKERMAN, M.F.A.

1. On partial leave of absence for the year 1961-62.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Program for the M.A. This consists of (a) three units of graduate work, one of which may be in an allied field; (b) an extended paper on a topic chosen in consultation with the Department; (c) a Final Examination (written or written and oral) to test the candidate's ability to place the topic chosen under (b) in the general context of the history of art.

Program for the Ph.D. Prime emphasis is placed on a program of research leading to a dissertation. A Preliminary Examination in four art-historical subjects (or in three art-historical subjects and one allied subject), consisting of four written papers and an oral examination, must be satisfactorily completed.

Allied Subjects. To be determined in consultation with the Department, according to the needs of the individual research program.

Prerequisites. The normal prerequisite for admission is a training in art history, but students with special abilities, or sound training in cognate disciplines are also admitted.

Languages. Students will be expected to read or be learning the languages necessary for their special fields of study and not to delay their research by lack of linguistic competence. Advanced study of western art-history normally involves a working knowledge of Latin, French, German and Italian.

SEMINARS AND GRADUATE COURSES

Mr. Mitchell:

Problems in Renaissance Art.

Mr. Loerke:

Topics in Mediaeval Art.

Mr. Fowle:

French Painting of the Early Nineteenth Century.

Mr. Ackerman:

Art Theory in the Baroque Period.

SELECTED UNDERGRADUATE COURSES

300a. *Texts for Art Historians:* Mr. Mitchell.

305. *Art of the Far East:* Mr. Soper.

311b. *Mediaeval Problems:* Mr. Loerke.

324a. *Twentieth Century Painting and Sculpture:* Mr. Fowle.

History of Religion

PROFESSOR OF LATIN: AGNES KIRSOPP MICHELS, PH.D.

PROFESSOR OF PHILOSOPHY
AND RELIGION: Appointment to be announced.

No graduate work is offered in History of Religion.

The courses listed are open to graduate students and may be taken for graduate credit with the permission of the major Department.

UNDERGRADUATE COURSES

103. *Literary History of the Bible*: Mrs. Michels.

The history of the Bible, with special emphasis on analysis of text and on literary forms.

201a. *Comparative Religion*: To be announced.

201b. *History of Christian Thought*: To be announced.

203a. *Philosophy of Religion*: To be announced.

This course is also listed as Philosophy 203.

203b. *Mediaeval Philosophy*: To be announced.

Italian

PROFESSOR: ANGELINE H. LOGRASSO, PH.D.,
Chairman

INSTRUCTOR: BERNARD TOSCANI, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Italian or its equivalent in ability to read, write and speak Italian together with a knowledge of Italian classical literature which, in the

opinion of the Department, provides an adequate basis for graduate work.

Allied Subjects. Any language or literature, European History, History of Art, Philosophy, Music, Political Science; other fields of importance for the candidate's work will be considered.

Language Requirements. French and German. In exceptional cases, determined by the special interests of the student, Latin or another language may be substituted for one of the two required languages.

Program and Examination for the M.A. Three units of work in Italian or in Italian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers and an oral examination. One paper must be in the field of Provençal, preferably Provençal and Old French. One paper may be in an allied field determined by the special interests of the student. Before taking the Preliminary Examination the candidate must demonstrate proficiency in spoken Italian.

SEMINARS AND GRADUATE COURSES

The seminar given is selected from the following. Normally the same seminar does not meet two years in succession and is usually not repeated within a three-year period.

Miss Lograsso:

Dante.

Literary Criticism.

Manzoni.

Old Italian.

Provençal.

Studies in Italian Romanticism.

Studies in the Thought of Luigi Sturzo.

SELECTED UNDERGRADUATE COURSES

201. *Classics in Italian Literature:* Miss Lograsso.

Reading and explanation of texts, with a study of literary history.

202. *Dante*: Miss Lograsso.

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works. This course is open to anyone with a reading knowledge of Italian.

[302c. *The Italian Language*: Miss Lograsso.]

Advanced work in composition.

[303. *Italian Literature of the Rinascimento*: Miss Lograsso.]

[304. *Italian Literature of the Romantic Period*: Miss Lograsso.]

Latin

PROFESSORS: THOMAS ROBERT SHANNON BROUGHTON,
PH.D., *Chairman*

BERTHE MARIE MARTI, PH.D.¹

AGNES KIRSOPP MICHELS, PH.D.

VISITING LECTURER: JAMES J. JOHN, D.S.M.

INSTRUCTOR: LYDIA HALLE LENAGHAN, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Latin, based on study in school and at least three years of college Latin, part of it in advanced courses; representative reading from Latin Literature of the classical period which, in the opinion of the Department, provides an adequate basis for graduate work. It is desirable that all graduate students in Latin should have some knowledge of Greek.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; Ancient History and, for students whose major interest is Mediaeval Latin, Mediaeval History; Classical Archaeology; Classical Philology. For most students the Department recommends Greek as the allied subject.

1. On sabbatical leave for the year 1961-62.

Language Requirements. French and German. In addition a reading knowledge of Greek is required for the Ph.D.

Program and Examination for the M.A. Candidates will normally offer two units of graduate work in Latin and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must pass an examination in Latin sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Latin sight translation. Candidates who do not offer Greek as an allied field must pass an examination in sight translation of Greek before they are admitted to the Final Examination. The Preliminary Examination consists of four written papers and an oral examination. Candidates whose major interest is Classical Latin are expected to offer in their Preliminary Examination Latin Literature of the classical period (Livius Andronicus to Tacitus) and, in most cases, one subsidiary field within the major—for instance a period of Roman History, Roman Religion, the History of Classical Scholarship, Epigraphy or Palaeography. In addition candidates are expected to offer an allied field (usually Greek). Candidates whose major interest is Mediaeval Latin are expected to show in their Preliminary Examination a broad knowledge of classical Latin Literature, but the emphasis in the examinations will be determined by the special interests of the student.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Mr. Broughton:

The Augustan Empire.

Cicero's Correspondence.

History and Literature of the Second Century B.C.

Latin Inscriptions.

Miss Marti:

[*History of Classical Scholarship.*

Latin Palaeography and Textual Criticism.

Literature of the Silver Age.

Literature of the Twelfth Century.]

Mrs. Michels:

Augustan Poetry.
Lucretius and Catullus.
Roman Satire.
The Works of Vergil.

Mr. John:

The Latin Historians of the Middle Ages.

SELECTED UNDERGRADUATE COURSES

- [301a. *Vergil's Aeneid*: Mrs. Michels.]
- [301b. *Tacitus and Livy*: Mr. Broughton.]
- 302a. *Cicero and Caesar*: Mr. Broughton.
- 302b. *Lucretius*: Mrs. Lenaghan.

Mathematics

PROFESSORS:

JOHN C. OXTOBY, M.A., *Chairman*
 MARGUERITE LEHR, Ph.D.

ASSOCIATE PROFESSOR:

FREDERIC CUNNINGHAM, JR., Ph.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. A good undergraduate preparation in Mathematics, or in Mathematics and Physics.

Major and Allied Subjects. Students may specialize in any of the broad divisions of Mathematics: Algebra, Analysis, Geometry, or Mathematical Physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. and Ph.D. must pass examinations in two of the three: French, German, Russian.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as a whole. It may or may not include an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses of directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only. They are usually selected from the following:

Mr. Cunningham:

Functional Analysis.

General Topology.

Linear Spaces.

Theory of Functions of a Complex Variable.

Miss Lehr:

Abstract Algebra.

Differential Geometry.

Probability Theory.

Projective Spaces and Lattice Theory.

Mr. Oxtoby:

Ergodic Theory.

Mathematical Physics.

Measure Theory.

Point Set Topology.

Theory of Functions of a Real Variable.

Journal Club. A joint Mathematical Colloquium with Haverford and Swarthmore Colleges and the University of Pennsylvania meets approximately every two weeks for the presentation of current research by local or visiting mathematicians.

SELECTED UNDERGRADUATE COURSES

301. *Advanced Calculus*: Mr. Cunningham.
 303a. *Introduction to Abstract Algebra*: Miss Lehr.
 [304a. *Theory of Probability*: Miss Lehr.]
 [305b. *Topics in Differential Geometry*: Miss Lehr.]
 310. *Theory of Functions of a Complex Variable*: Mr. Oxtoby.
 [311b. *Differential Equations*: Mr. Oxtoby.]

Mediaeval Studies

PROFESSOR OF ENGLISH

PHILOLOGY:

STEPHEN JOSEPH HERBEN, LITT.B., PH.D.

PROFESSOR OF

HISTORY OF ART:

CHARLES MITCHELL, M.A., B.LITT.

PROFESSOR OF ITALIAN:

ANGELINE HELEN LOGRASSO, PH.D.

PROFESSOR OF LATIN:

BERTHE MARIE MARTI, PH.D.¹

VISITING PROFESSOR

OF FRENCH:

WILLIAM J. ROACH, PH.D.

ASSOCIATE PROFESSOR

OF HISTORY OF ART:

WILLIAM C. LOERKE, PH.D., *Chairman*

ASSOCIATE PROFESSOR

OF HISTORY:

DAVID J. HERLIHY, PH.D.¹

ASSISTANT PROFESSOR

OF ENGLISH:

ROBERT B. BURLIN, PH.D.

ASSISTANT PROFESSOR

OF MUSIC:

SYLVIA W. KENNEY, PH.D.

VISITING LECTURER

IN HISTORY AND

MEDIAEVAL LATIN:

JAMES J. JOHN, D.S.M.

Graduate work in the mediaeval field may be done in either of two ways: (a) under a particular department, e.g., History, Latin, History of Art or one of the language and literature departments, in which case students come under the regulations of the department concerned; or (b) under the Mediaeval Studies Committee,

1. On sabbatical leave for the year 1961-62.

as listed above, in which case they work for a degree specifically in Mediaeval Studies according to the following plan:

Prerequisites. An undergraduate major in any of the fields listed in the paragraphs under major and allied subjects.

Major and Allied Subjects. Any literature ancient, mediaeval or modern, History, Philosophy, Archaeology, History of Art, History of Music.

Language Requirements. For the M.A. and the Ph.D.: Latin, French and German. Other languages may be substituted by permission of the Committee according to the candidate's special program.

Program and Examinations for the M.A. Candidates will normally work in two departments and will offer at least two units of graduate work in any of the mediaeval fields and a third unit in any of the fields listed as allied. An extended paper, usually growing out of the work of one of the seminars, will be required in addition to the examination. The examination may be either written (four hours) or written and oral (three hours—one hour).

Program and Examinations for the Ph.D. The course of study will normally be under the guidance of one professor. Prime emphasis will be placed on a program of research leading to a dissertation. A satisfactory Preliminary Examination in two mediaeval fields and one allied field, consisting of several examinations, written and oral, will be required.

SEMINARS AND GRADUATE COURSES: (See under the various departments).

Music

PROFESSOR AND DIRECTOR OF
THE CHORUS:

ROBERT L. GOODALE, B.MUS.,
A.A.G.O., *Chairman*

PROFESSOR AND DIRECTOR OF
ENSEMBLE GROUPS:

AGI JAMBOR, M.A.

VISITING PROFESSOR:

HORACE ALWYNE, F.R.M.C.M.

ASSISTANT PROFESSOR:

SYLVIA W. KENNEY, PH.D.

DIRECTOR OF ORCHESTRA:

WILLIAM H. REESE, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of pianoforte or organ playing to be able to play music of the technical difficulty of a Bach figured chorale.

Allied Subjects. Any modern language or literature, History, History of Art, History of Religion, Philosophy.

Language Requirements. Two modern languages are required for the M.A. degree, preference being given to German and French. For candidates for the Ph.D. degree two languages are required, one of which must be German.

Program and Examination for the M.A. The program consists of three units of work in Music. The Final Examination is written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The oral examination covers the subject matter of the dissertation.

SEMINARS AND GRADUATE COURSES

Miss Kenney:

Mediaeval and Early Renaissance Music: a Study of Style and Paleography.

Music of the Late Renaissance and Baroque.

Mr. Goodale:

Music of the Twentieth Century.

Theory and Analysis.

Mme Jambor:

The Interpretation of Music.

Mr. Alwyne:

The Music of England.

The Nineteenth Century.

SELECTED UNDERGRADUATE COURSES

- 201. *The Romantic Period*: Mr. Alwyne.
- 202. *Advanced Theory and Analysis*: Mr. Goodale.
- 203c. *Bach*: Mme Jambor.
- 204c. *The Classical Period*: Mme Jambor.
- [301a. *Opera and Music Drama*: Miss Kenney.]
- [301b. *Contemporary Music*: Mr. Goodale.]
- 302a. *Mediaeval and Early Renaissance Music*: Miss Kenney.
- 302b. *Late Renaissance and Baroque Music*: Miss Kenney.
- 303a. *Orchestration*: Mr. Goodale.
- 303b. *Russian Music*: Mr. Alwyne.
- 304c. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme Jambor.
- 305. *Free Composition*: Mr. Goodale.

Membership in the Ensemble Groups, the Orchestra and the College Chorus is open to graduate students. Participation by students in the Department in one or more of these organizations is strongly urged.

Philosophy

PROFESSORS:

MILTON CHARLES NAHM, B.LITT.,
PH.D., *Chairman*

JOSÉ MARIA FERRATER MORA, *Lic.F.L.*
ISABEL SCRIBNER STEARNS, PH.D.

ASSOCIATE PROFESSORS:

GEORGE L. KLINE, PH.D.
HUGUES LEBLANC, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy or whose undergraduate major work is not adequate may be required to take such undergraduate courses as the Department considers necessary.

Major and Allied Subjects. Students may major in either historical or systematic branches of Philosophy. Allied subjects: another field of Philosophy, Biology, Chemistry, Economics, English, French, Greek, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, Sociology and Anthropology.

Language Requirements. French and German. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.

Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination.

SEMINARS AND GRADUATE COURSES

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr. Ferrater Mora:

History of Philosophic Concepts.

The origin and development of philosophic concepts with particular attention to meanings and changes of meaning throughout history.

Types of Philosophy.

A study of the various ways of grouping philosophic systems, with an analysis of philosophic methods.

Heidegger.

A detailed examination of *Sein und Zeit* with particular attention to its place and significance in Heidegger's thought.

Mr. Nahm:

Aesthetics.

A systematic and historical analysis of problems in the philosophy of art.

Ethics.

The Ethics of Kant and Hegel; or The History of English Ethics; or Henry Sidgwick and Contemporary British Moralists.

Kant.

Critique of Pure Reason.

Miss Stearns:

Epistemology.

An historical and systematic study of the function of reason and other agencies in knowledge.

Metaphysics.

A study of such problems as time, the one and the many, the individual, appearance and reality.

Plotinus.

A detailed study of the *Enneads*.

Mr. Leblanc:

Deductive Logic.

A study of deductive logic and of some outstanding results in the syntax and semantics of deductive logic.

Inductive Logic.

A study of statistical and inductive probabilities, of current methods for testing hypotheses and making estimates, and, more generally, of induction.

Logical Empiricism versus Analytic Philosophy.

A study of two major trends in American and British philosophy today.

Journal Club. Students have the privilege of becoming auxiliary members of the Fullerton Club, which meets each month at the Deanery, and at which papers are read by members of the faculties of Bryn Mawr, Swarthmore, Haverford and other nearby colleges, and the University of Pennsylvania.

SELECTED UNDERGRADUATE COURSES

201a. *German Idealism*: Mr. Ferrater Mora.

201b. *Recent Metaphysics*: Miss Stearns.

202a. *Logic*: Mr. Leblanc.

205a. *Russian Ethical and Social Theory*: Mr. Kline.

301a. *Aesthetics*: Mr. Nahm.

301b. *Theory of Knowledge*: Mr. Leblanc.

302a. *Plato*: Miss Stearns.

302b. *Philosophy of History*: Mr. Ferrater Mora.

[303b. *Contemporary Philosophy*: Mr. Ferrater Mora.]

[304b. *Aristotle*: Mr. Ferrater Mora.]

305a. *Hegel*: Mr. Kline.

Physics

PROFESSOR:	WALTER C. MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ROSALIE C. HOYT, PH.D. JOHN R. PRUETT, PH.D.
ASSISTANT PROFESSOR:	W. PAUL GANLEY, PH.D.
LECTURER:	LYLE W. PHILLIPS, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g. Mathematics, Chemistry, Engineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars.

Allied Subjects. Candidates for the degree of Doctor of Philosophy are in general expected to offer Mathematics as an allied subject. They may substitute Chemistry, Biology or Geology if their mathematical training is accepted as adequate for their work in Physics.

Language Requirement. The two languages required for the M.A. and Ph.D. degrees will ordinarily be chosen by the student to include one each from two of the following categories: (a) German; (b) Russian; (c) French, Italian or Spanish.

Program and Examination for the M.A. An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college Physics courses, but the student will be expected to handle this material on a reasonably mature level.

Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of Experimental Physics and at least one graduate seminar in Theoretical Physics. The paper will usually consist of a report on work done in connection with the unit of Experimental Physics.

The M.A. examination is a one-hour oral examination.

Program and Examination for the Ph.D. Each candidate must have completed Physics 304 or its equivalent and have passed the

oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examination will consist of two four-hour written examinations, one problem set, and an oral examination lasting approximately one hour. Each of the two four-hour examinations will cover one of the following fields of Physics, to be chosen by the Department: (1) Classical Mechanics, including Relativity. (2) Thermodynamics and Statistical Mechanics. (3) Electricity and Magnetism. (4) Wave Phenomena, including both Optical and Acoustical Waves. (5) Quantum Mechanics. (6) Atomic and Nuclear Structure. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general Physics.

Each full-time graduate student is expected to carry on some experimental work each year. Unless the candidate has demonstrated adequate acquaintance with Experimental Physics in other ways, the research leading to the dissertation must be, at least in part, experimental.

SEMINARS

One or two graduate seminars in Theoretical Physics are offered each year. In addition, a seminar in Experimental Physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Experimental Physics

Mr. Michels, Miss Hoyt, Mr. Pruett, Mr. Ganley.

Theoretical Physics

Mr. Michels:

1961-62: *Electromagnetic Theory*. Maxwell's Equations, applications to waves subject to various boundary con-

ditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr. Pruett:

1962-63: *Quantum Mechanics*. Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications to atomic structure. The Dirac approach with applications to relativistic electron theory and the quantum theory of radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.

Mr. Michels:

1961-62: *Physics of the Solid State*. Classification and characteristics of solids, theory of mechanical, electrical, thermal and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Miss Hoyt:

1962-63: *Chemical Physics*. Chemical and phase equilibria, interatomic and intermolecular forces, chemical bonding, molecular structure. Prerequisite: Quantum Mechanics.

Mr. Pruett:

1963-64: *Nuclear Physics*. An introductory study of classical nuclear physics followed by applications of quantum mechanics to nuclear problems and associated high energy phenomena. Some quantum electrodynamics and meson theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

Colloquium. All members of the Department and all graduate students meet weekly for the discussion of current problems.

SELECTED UNDERGRADUATE COURSES

- 201a. *Electricity and Magnetism*: Mr. Pruett.
- 202b. *Optics*: Mr. Pruett.
- 301a. *Classical Mechanics*: Mr. Ganley.
- 303b. *Statistical Thermodynamics*: Mr. Michels.
- 304. *Introduction to Theoretical Physics*: Mr. Pruett.
- 305c. *Physical Measurements*: Mr. Ganley.
- [351.* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

Political Science

The Caroline McCormick Slade Department of Political Science

PROFESSOR: ROGER HEWES WELLS, PH.D.,
Chairman

ASSOCIATE PROFESSORS: PETER BACHRACH, PH.D.
MELVILLE T. KENNEDY, JR., PH.D.
GERTRUDE C. K. LEIGHTON, A.B., LL.B.¹

VISITING LECTURER: FREDERICK S. DUNN, PH.D., LL.D.

LECTURER: CHARLES J. COOPER, LL.B.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. Good undergraduate training in Political Science and related subjects.

Major and Allied Fields. The major fields in Political Science are Political Theory, Comparative Government, American Government and Constitutional Law, International Law, Organization and Politics, and Public Administration. Allied fields may be chosen in the other Social Sciences, in History and Philosophy, and, with the special permission of the Department, in certain subjects in Literature. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be allied.

Language Requirements. Two modern languages.

Program and Examination for the M.A. The program consists of three units of work in Political Science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

Program and Examination for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is done. The other three fields are tested by preliminary written and oral examinations. The fourth field and the dissertation are covered in the Final Oral Examination.

SEMINARS

Mr. Wells:

Problems of Public Administration. Semester I, 1961-62.

Topics in Western Political Theory. Semester II, 1961-62.

Comparative Government: Problems of Federalism. 1962-63.

1. On leave of absence for the year 1961-62.

Mr. Bachrach:

Topics in American Political Theory. Semester I, 1961-62.

The American Political Process. Semester II, 1961-62.

American Constitutional Law. 1962-63.

Mr. Kennedy:

Problems in East Asian International Relations. 1961-62.

Topics in Chinese Political and Social Development, 1911-1949. 1962-63.

Miss Leighton:

The World Community and Law. 1962-63.

Journal Club. Students are expected to attend the Journal Club. This meets from time to time during the year to discuss research in progress, recent books and other topics of scholarly interest.

SELECTED UNDERGRADUATE COURSES

306a. *Law and Society:* Mr. Cooper.

307b. *The Problem of Power in Contemporary Society:* Mr. Bachrach and Mr. Baratz.

308a. *Government and Politics in Metropolitan Areas:* Mr. Wells.

310a. *Politics and Diplomacy in the International Arena:* Mr. Dunn.

311b. *Organized International Action:* Mr. Dunn.

Psychology

PROFESSORS:

MORTON EDWARD BITTERMAN, PH.D.,
Chairman

RACHEL DUNAWAY COX, PH.D.

ASSOCIATE PROFESSORS:

DONALD ROBERT BROWN, PH.D.

ROBERT SIMON DAVIDON, PH.D.

WILLIAM AUGUST WILSON, JR.,
M.D., PH.D.

ASSISTANT PROFESSOR:

RICHARD CHARLES GONZALEZ, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates usually will find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of the application must submit a score on the Miller Analogies Test.

Major and Allied Subjects. The Department offers broad training in Psychology. The orientation in the various fields is experimental, and there are no facilities for clinical training. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Education, Mathematics, Philosophy, Political Science, Physics, and Sociology. Students interested primarily in Child Psychology normally major in Education and Child Development.

Language Requirements. Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. (Only one language is necessary because of the requirement in Statistics and Experimental Design.) Candidates for the Ph.D. must pass examinations in two of the three languages.

Program and Examinations for the M.A. Each new student may be asked to take an assessment examination in Psychology. If performance on this examination warrants, the student is admitted to graduate seminars. If it does not, the student is asked to complete his preparation at the undergraduate level. Some time before final approval of the Master's paper, each candidate must pass a written examination in Statistics and Experimental Design. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

Program and Examination for the Ph.D. Candidates are expected to devote a large portion of their time to supervised research. The Preliminary Examination consists of three written papers, one in each of three specialized areas of Psychology, or two in specialized areas of Psychology and one in an allied area. The areas are chosen by the student with the approval of the Depart-

ment. A qualifying examination in Statistics and Experimental Design precedes the Preliminary Examination. The Final Oral Examination deals with the dissertation and related topics.

SEMINARS AND GRADUATE COURSES

The needs of the students determine which seminars and graduate courses are offered each year. Those offered most often are listed below.

Mr. Bitterman:

Animal Learning.

Comparative Psychology.

Mr. Brown:

Personality.

Social Psychology.

Mrs. Cox:

Clinical Evaluation.

Problems in Child Development.

Mr. Davidon:

History of Psychology.

Measurement.

Perception.

Mr. Gonzalez:

Human Learning.

Statistical Methods.

Mr. Wilson:

Physiological Psychology.

Sensory Processes.

SELECTED UNDERGRADUATE COURSES

201a. *Learning and Thinking*: Mr. Gonzalez.

202b. *Psychological Testing*: Mrs. Cox.

204a. *Experimental Methods and Statistics*: Mr. Wilson.

205b. *Perception*: Mr. Davidon.

301b. *Physiological Psychology*: Mr. Wilson.

303a. *Psychology of the Normal Personality*: Mr. Brown.

303b. *Social Psychology*: Mr. Brown.

304b. *Psychology of the Abnormal Personality*: Mr. Brown.

305b. *Comparative Psychology*: Mr. Bitterman.

307a. *History of Psychology*: Mr. Davidon.

Russian

ASSOCIATE PROFESSORS: FRANCES DE GRAAFF, PH.D., *Chairman*

GEORGE L. KLINE, PH.D.

ASSISTANT PROFESSOR: RUTH C. PEARCE, PH.D.

PROFESSOR OF ENGLISH BETTINA LINN, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Russian with knowledge of Russian Literature and ability to read and speak Russian.

Allied Subjects. Any language or literature, European History, Political Science.

Language Requirements. French and German. In special cases the Department may accept other languages.

Program and Examination for the M.A. Three units of work in Russian or in Russian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

SEMINARS

Seminars offered are selected from the following:

Miss de Graaff:

Serbo-Croatian.

Pushkin and Lermontov.

Mr. Kline:

Russian Critics of the Nineteenth Century.

Poets of the Twentieth Century.

Mrs. Pearce:

History of the Russian Language.

Old Church Slavonic.

SELECTED UNDERGRADUATE COURSES

201. *Readings in Russian Literature.*

[206. *History of Russia:* Mr. Herlihy, Mr. Gilbert.]

302. *Pushkin and His Time:* Miss de Graaff.

303. *Russian Literature of the Twentieth Century:* Mr. Kline.

Social Work and Social Research

*The Carola Woerishoffer Graduate Department
of Social Work and Social Research*

PROFESSOR:	KATHERINE D. K. LOWER, PH.D., <i>Director of the Department</i>
ASSOCIATE PROFESSORS:	HERTHA KRAUS, PH.D. BERNARD ROSS, PH.D. EDMUND V. MECH, PH.D. PHILIP LICHTENBERG, PH.D. LOUIS GOLDSTEIN, PH.D. JEAN HARING, M.S.W. ROSE SEGAL, M.S.
LECTURER:	JEANNE POLLOCK, M.S.W.
INSTRUCTORS:	JANE COLLINS KRONICK, PH.D. WILLIAM W. VOSBURGH, M.A. PATRICIA R. MILLAR, M.S.S.

PROFESSOR OF EDUCATION
AND PSYCHOLOGY:

RACHEL D. COX, PH.D.

ASSOCIATE PROFESSOR OF
SOCIOLOGY:

EUGENE V. SCHNEIDER, PH.D.

PART-TIME LECTURER IN
EDUCATION:

ETHEL W. MAW, PH.D.

INSTRUCTOR IN EDUCATION:

LOUISE DYCKMAN, PH.D.

Bryn Mawr awards the degrees of Doctor of Philosophy and Master of Social Service in the Department of Social Work and Social Research.* The Department is open to qualified graduates in liberal arts of colleges or universities of recognized standing.

Prerequisites. Psychology and the social sciences, including Economics, Political Science, History, Sociology and Anthropology, provide basic preparation. At least one general course

* The prerequisites and program required for the degree of Master of Social Service are described on pp. 33-34. The statement here refers only to the Ph.D. in Social Work and Social Research.

in each field is important, as well as concentration in one as a major field. A basic course in Statistics is also desirable. In general, applicants for the Ph.D. are expected to have completed work for a Master's degree, or its equivalent, in social work.

The program leading to the Ph.D. degree is designed primarily for social workers who wish to prepare for research, teaching and administration in the broad field of social welfare. The curriculum for the Ph.D. degree includes work in the three following areas of study: Social Welfare, the Social Sciences, and Research Methods.

The specific program of study is planned to meet the needs of the individual student, including course work in the Department and in other departments of the Graduate School, which would usually be Psychology, Sociology and Anthropology, Economics, Education and Child Development, or Political Science. The major field will be selected from the fields of social welfare or research. The allied field or fields may be selected from social welfare or from the social sciences.

Major and Allied Fields. The major and allied fields may be selected from the field of Social Work. At the same time, some work in one of the allied fields of Sociology, Psychology, Anthropology or Economics, selected with a view to its contribution to the major field of the student's interest, is recommended. For the degree, substantial work in Statistics is also required.

Language Requirements. By special action of the faculty, a reading knowledge of only one language is required for the Ph.D. in Social Work. The language required is French, but in special cases another language may be substituted.

Program and Examinations. The program of study is individually planned to cover major and allied fields. Seven units of work will normally be suggested as a minimum. The Preliminary Examination in major and allied fields consists of four written papers and an oral examination testing the candidate's general knowledge of the fields.

A *Bulletin* of the Department is issued biennially, containing descriptions of requirements and courses offered. A copy may be obtained by writing to the Director of the Department.

Sociology and Anthropology

PROFESSOR: FREDERICA DE LAGUNA, PH.D., *Chairman*

ASSOCIATE PROFESSOR: EUGENE V. SCHNEIDER, PH.D.¹

ASSISTANT PROFESSOR: EDWARD B. HARPER, PH.D.¹

LECTURER IN

SOCIOLOGY: SAMUEL W. BLOOM, PH.D.

LECTURER IN

ANTHROPOLOGY: JANE C. GOODALE, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

ANTHROPOLOGY

Prerequisites. A good undergraduate preparation in Anthropology and/or Sociology. Some undergraduate training in History, or Psychology, or in another social science, is also desirable. Students whose undergraduate training is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Major and Allied Subjects. Students who specialize in Anthropology may be expected to do some work in Sociology. For other allied subjects, see the special requirements for the Ph.D. in Anthropology.

Language Requirements. Candidates for the M.A. or Ph.D. in Anthropology must offer two modern languages, preference being given to German as one of these.

Program and Examination for the M.A. The program consists of three units of work in seminars or advanced undergraduate courses arranged for seminar credit. One of these may be taken in Sociology. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

1. On leave of absence for the year 1961-62.

Program and Examinations for the Ph.D. All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department. (For exchange arrangements with other institutions, see page 27.) The Preliminary Examination will consist of four three-hour written papers and an oral examination of one hour.

The Preliminary Examination for candidates for the *Ph.D. in Anthropology* will be in (1) Anthropological Theory and History of Anthropology, (2) and (3) two examinations in more specialized fields in Anthropology, such as Primitive Religion, Cultural Dynamics, Ethnography or Archaeology of one major Culture Area, etc. and (4) an examination in an allied field, such as Sociology or Psychology. In addition, students will be expected to be familiar with the principles of two of the following subjects: Physical Anthropology and/or Human Paleontology, Prehistoric or American Archaeology, Linguistics. These requirements may be satisfied by courses taken at any institution approved by the Department, or competence may be tested by examination.

SEMINARS AND GRADUATE COURSES IN ANTHROPOLOGY

Depending upon the needs of the students these may be offered either as full year courses (1 unit of credit), or as semester courses ($1\frac{1}{2}$ unit of credit). Seminars offered in 1961-62 will be:

Miss de Laguna:

American Archaeology.

Miss Goodale:

Social Organization of Primitive Peoples (Semester I).

The Culture of Australian Aborigines (Semester II).

SELECTED UNDERGRADUATE COURSES

203a. *Primitive Culture*: Miss Goodale.

203b. *Primitive Society*: Miss Goodale.

301b. *Cultural Theory*: Miss Goodale.

304a. *Culture and Personality*: Miss de Laguna.

Also available at the University of Pennsylvania under the Reciprocal Plan are graduate courses and seminars in Anthropology and in Sociology. Students are also urged to join the Philadelphia Anthropological Society which meets once a month at the University of Pennsylvania Museum.

SOCIOLOGY

Prerequisites. A good undergraduate preparation in Sociology, or some closely related social science is desirable. Students whose undergraduate training is not entirely adequate may be required to take certain undergraduate courses. Advanced undergraduate courses can usually be taken for graduate credit.

Major and Allied Subjects. Students will be expected to take some work in allied fields. In addition courses at the University of Pennsylvania in Sociology or allied fields may be taken for credit.

Language and Statistics Requirements. Candidates for the M.A. must offer one modern language and statistics. Candidates for the Ph.D. must offer two languages; these will normally be German and French, except in special cases.

Program and Examination for the M.A. The program consists of three units of work. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to have had, or to take, at least one year's graduate work at another institution approved by the Department, except in special cases. (For exchange arrangements with other institutions, see page 27.)

The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in (1) Sociological Theory, (2) Comparative Social Institutions, (3) an allied field, for instance in Anthropology, Social Psychology, Economics, Political Science, History, (4) a specialized subject within the

field of Sociology. In addition, the student will be expected to be familiar with Statistics and the methods of Social Research.

SEMINARS AND GRADUATE COURSES IN SOCIOLOGY

One seminar a year will be given from among the following topics:

Sociological Theory.

Social Institutions.

Theories of Social Change.

Sociology of Knowledge.

Industrial Sociology.

SELECTED UNDERGRADUATE COURSES

Advanced courses in this department and in allied fields at Bryn Mawr and Haverford may be offered for credit under special conditions.

Also available at the University of Pennsylvania under the Reciprocal Plan are graduate courses and seminars in Sociology and allied fields.

Spanish

DEAN OF THE

COLLEGE:

DOROTHY NEPPER MARSHALL, PH.D.

PROFESSOR:

FRANCISCO AYALA, *D. en D., Chairman*

ASSISTANT

PROFESSOR:

WILLARD FAHRENKAMP KING, PH.D.

VISITING

LECTURER:

VICENTE LLORÉNS, *Lic.F.L.*

INSTRUCTORS:

MIGUEL GONZALEZ-GERTH, M.A.

PHYLLIS TURNBULL, M.A.

PROFESSOR OF

PHILOSOPHY:

JOSÉ MARIA FERRATER MORA, *Lic. F.L.*

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology.

Language Requirements. For the M.A. two romance languages other than Spanish, or one romance language and German. For the Ph.D. German and French; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; if it does not, Latin will have to be included in the graduate program.

Program and Examination for the M.A. The program consists of two units of graduate work in Spanish and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed as early as possible with the member of the Department with whom the candidate plans to work on her dissertation.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Mrs. King:

[*Galdós* (Semester I and II).]

A detailed study of Galdós as novelist and dramatist against the background of nineteenth-century Spanish history and thought.

Mr. Ayala:

[*The Mediaeval Castilian Epic* (Semester I).]

A study of historical and literary problems surrounding the Castilian epic, with particular attention to the *Cantar de Mio Cid*.

[*The Mediaeval Castilian Lyric* (Semester II).]

The origins and development of Castilian Lyric poetry. An intensive study will be made of the *Libro de Buen Amor*.

Prose Fiction of the Renaissance.

From *La Celestina* to *Don Quixote*.

Mr. Lloréns:

The Poetry of the Golden Age.

The evolution of Spanish poetry from Garcidaso to Gondora.

SELECTED UNDERGRADUATE COURSES

[302a. *Modern Essay in Spain and Spanish America*: Mr. Ayala.]

[302b. *The Spanish American Novel*: Mr. Ayala.]

303a. *Modern Novel in Spain*: Mrs. King.

303b. *Modern Spanish Poetry*: Mr. Lloréns.

[304a. *Drama of the Golden Age*: Mrs. King.]

[304b. *The Age of Cervantes*: Mrs. King.]

How to Get to Bryn Mawr

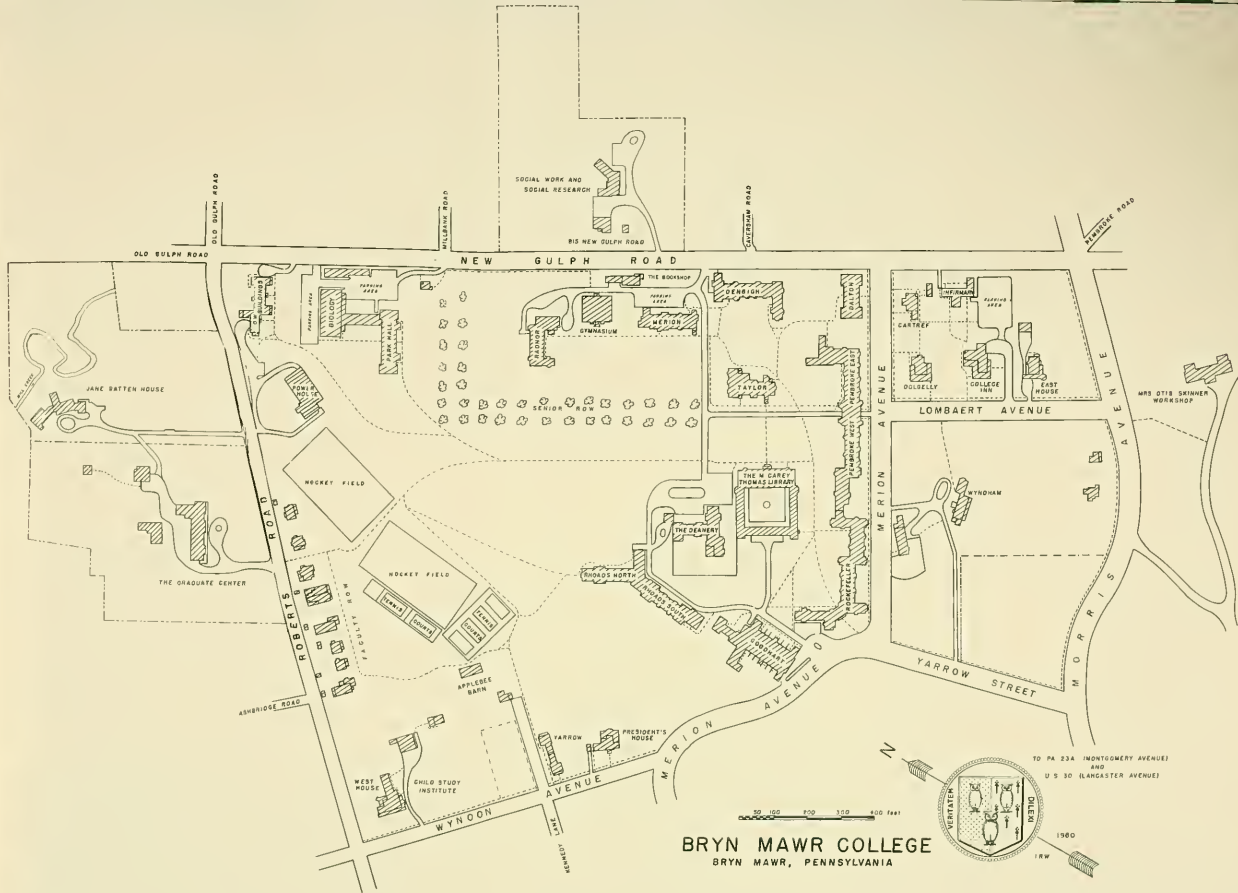
Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues.

By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.



BRYN MAWR COLLEGE
BRYN MAWR, PENNSYLVANIA



BRYN MAWR

THE GRADUATE SCHOOL 1961-1962

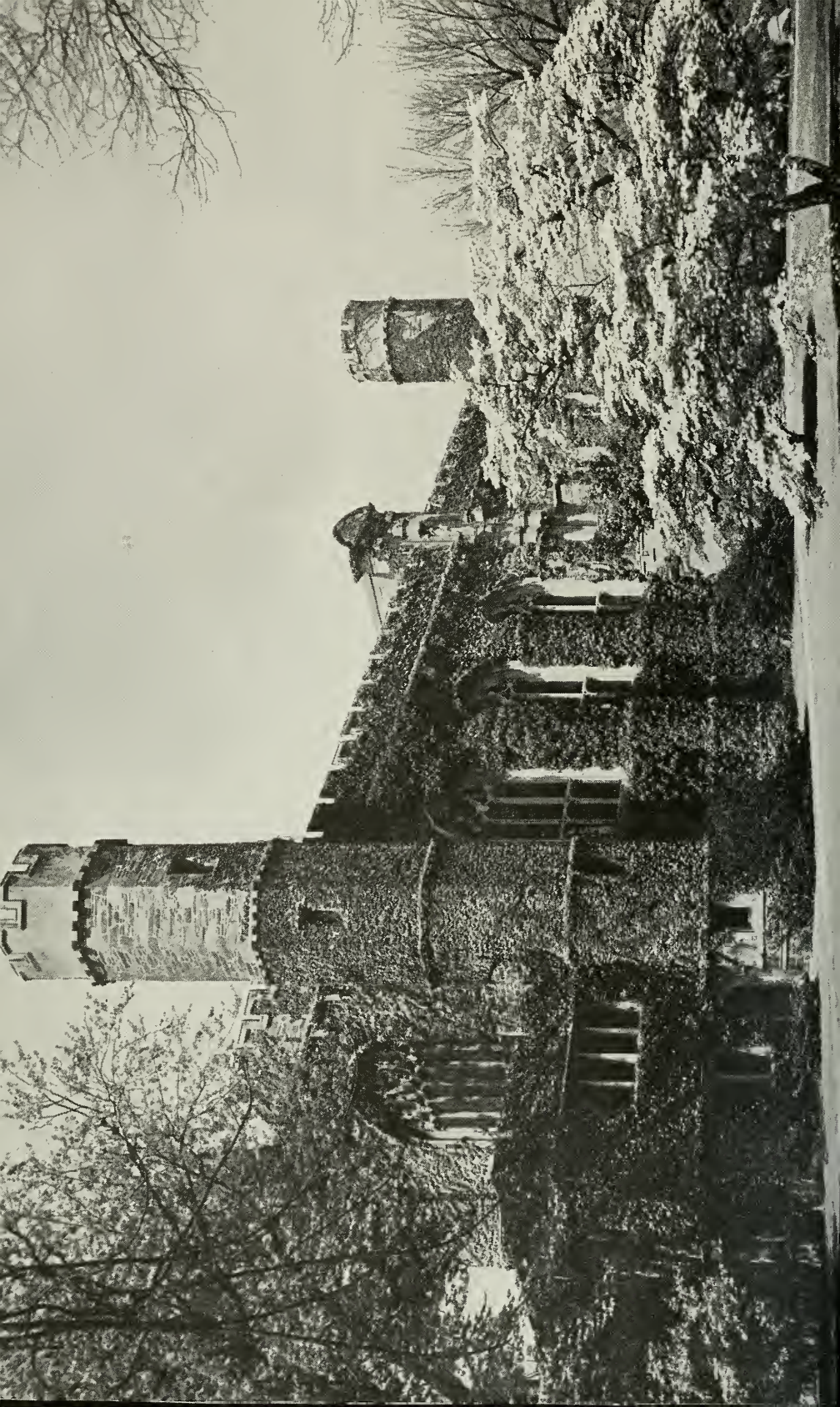
RYN MAWR

COLLEGE CALENDAR

1961 | 1962

UNDERGRADUATE COURSES



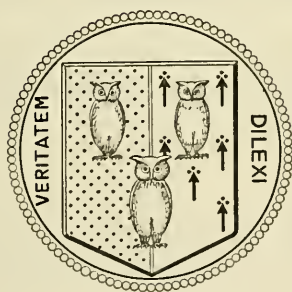


Bryn Mawr College Calendar

UNDERGRADUATE COURSES

ISSUE FOR THE SESSION OF

1961-1962



AUGUST 1961

Volume LIV

Number 3

VISITORS to the College are welcome, and when the College is in session student guides are available to show visitors the campus. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after Labor Day the offices are closed on Saturdays.

Whenever possible, visitors are urged to write in advance for appointments. Prospective students are encouraged to secure information about the College from local College Representatives, whose names and addresses are listed on pages 137-146.

CORRESPONDENCE

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania.

Correspondence regarding the following subjects should be addressed to:

The President

General interests of the College

The Dean

Academic work, personal welfare and health of the students

The Director of Admissions

Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School

Admission to the Graduate School and graduate scholarships

The Director of Halls

Rooms in the halls of residence

The Comptroller

Payment of bills

The Director of the Bureau of Recommendations

Recommendations for positions and inquiries regarding students' self-help

The Alumnae Secretary

Regional scholarships and loan fund

BRYN MAWR COLLEGE CALENDAR. Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa.

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Photographs

Air View of Campus; The M. Carey Thomas Library.

College Calendar

1961-1962

1961

FIRST SEMESTER

September 21 (*Thursday*). Halls of residence open to entering class at 8 A.M.

September 24 (*Sunday*). Halls of residence open to all returning undergraduate students at 8 P.M.

September 26 (*Tuesday*). The 77th academic year begins at 9 A.M.

November 22 (*Wednesday*). Thanksgiving holiday begins after last class

November 27 (*Monday*). Thanksgiving holiday ends at 9 A.M.

December 15 (*Friday*). Christmas vacation begins at 12:45 P.M.

1962

January 4 (*Thursday*). Christmas vacation ends at 9 A.M.

January 19 (*Friday*). Last day of lectures

January 22 (*Monday*). Collegiate examinations begin

February 1 (*Thursday*). Collegiate examinations end

SECOND SEMESTER

February 5 (*Monday*). The second semester begins at 9 A.M.

March 23 (*Friday*). Spring vacation begins after last class

April 2 (*Monday*). Spring vacation ends at 9 A.M.

May 18 (*Friday*). Last day of lectures

May 21 (*Monday*). Collegiate examinations begin

June 1 (*Friday*). Collegiate examinations end

June 5 (*Tuesday*). Conferring of degrees and close of the 77th academic year

The Academic Schedule is listed on pages 147-48.

The Trustees of Bryn Mawr College

J. EDGAR RHOADS, *President*

MILLCENT CAREY MCINTOSH¹ ELIZABETH GRAY VINING²

Vice-Presidents

JOHN E. FORSYTHE

Treasurer

J. TYSON STOKES

Assistant Treasurer

AGNES BROWN LEACH³

Secretary

MARGARET TYLER PAUL⁴

Assistant Secretary

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JOHN E. FORSYTHE

JOHN S. PRICE

ALLEN MCKAY TERRELL

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JONATHAN E. RHOADS

JAMES WOOD

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ELEANOR LITTLE ALDRICH⁵

ELIZABETH GRAY VINING²

Vice-Chairmen

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J. TYSON STOKES

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AGNES BROWN LEACH³

Secretary

MARGARET TYLER PAUL⁴

Assistant Secretary

Directors

RICHARD MOTT GUMMERE

AGNES BROWN LEACH³

MILLCENT CAREY MCINTOSH¹

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AMOS JENKINS PEASLEE

JONATHAN E. RHOADS

JAMES WOOD

KATHARINE ELIZABETH MCBRIDE

ELEANOR LITTLE ALDRICH⁵

J. TYSON STOKES

PHYLLIS GOODHART GORDAN⁶

ALICE PALACHE JONES⁷

ELEANOR MARQUAND DELANOY⁸

AGNES CLEMENT INGERSOLL⁹

LELIA WOODRUFF STOKES¹⁰

Alumnae Director, 1956-1961

BARBARA COLBRON

Alumnae Director, 1957-1962

JANE YEATMAN SAVAGE¹¹

Alumnae Director, 1958-1963

ANGELA JOHNSTON BOYDEN¹²

Alumnae Director, 1959-1964

KATHARINE STRAUSS MALI¹³

Alumnae Director, 1960-1965

MARY HALE CHASE¹⁴

Alumnae Director, 1961-1966

EDITH HARRIS WEST, *by invitation*¹⁵

President of the Alumnae Association

Standing Committees of the Board of Directors for 1961

Executive Committee

MR. RHOADS, *Chairman*
MR. CADBURY, *ex officio*
MRS. ALDRICH
MRS. DELANOY
MR. FORSYTHE
MRS. GORDAN
MRS. LEACH
MISS MCBRIDE
MRS. MCINTOSH
MRS. SAVAGE
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MRS. INGERSOLL
MISS MCBRIDE
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MRS. LEACH
MR. PRICE
MR. STOKES
MR. TERRELL

Library Committee

MRS. GORDAN, *Chairman*
MRS. ALDRICH
MRS. BOYDEN
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ACADEMIC YEAR, 1961-1962

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Head Librarian

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Physical Education*

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sor Emeritus of Classical Archaeology*

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sity), LL.D., *Professor Emeritus of Political Science*

GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus
of Old French*

MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor
Emeritus of German*

HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor Emeritus of History*

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MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*

LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin*

ANNA PELL WHEELER, PH.D. (University of Chicago), Sc.D., *Professor Emeritus of Mathematics*

THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin, Secretary of the Faculty*

HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music and Visiting Professor*

FRANCISCO AYALA, *Doctor en Derecho* (University of Madrid), *Professor of Spanish*

ERNST BERLINER, PH.D. (Harvard University), *Professor of Chemistry*¹

L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*

MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Professor of Psychology*

ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean of the Graduate School and Professor of Biology*

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FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*

LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*

JOSÉ MARIA FERRATER MORA, *Licenciado en Filosofía* (University of Barcelona), *Professor of Philosophy*

1. On sabbatical leave, Semester II, 1961-1962.

- MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College), *Professor of Biology*
- FELIX GILBERT, PH.D. (University of Berlin), *Professor of History*
- ROBERT L. GOODALE, A.B., B.MUS. (Yale University), A.A.G.O., *Professor of Music*
- STEPHEN JOSEPH HERBEN, B.LITT., PH.D. (Princeton University), *Professor of English Philology*
- JOSHUA C. HUBBARD, PH.D. (Harvard University), *Professor of Economics*
- AGI JAMBOR, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*
- MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Professor of Greek*
- RICHMOND LATTIMORE, PH.D. (University of Illinois), LITT.D., *Paul Shorey Professor of Greek*
- MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of Mathematics*
- BETTINA LINN, M.A. (Bryn Mawr College), *Margaret Kingsland Haskell Professor of English*
- ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor of Italian*
- KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*
- BERTHE MARIE MARTI, PH.D. (Bryn Mawr College), *Professor of Latin*¹
- AGNES KIRSOPP LAKE MICHELS, PH.D. (Bryn Mawr College), *Professor of Latin*
- WALTER C. MICHELS, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*
- CHARLES MITCHELL, M.A., B.LITT. (Oxford University), *Richard M. Bernheimer Professor of History of Art*
- MILTON CHARLES NAHM, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*

1. On leave of absence for the year, 1961-1962.

- MILDRED BENEDICT NORTHROP, PH.D. (Columbia University), *Professor of Economics*
- JANE MARION OPPENHEIMER, PH.D. (Yale University), *Professor of Biology*
- JOHN C. OXTOBY, M.A. (University of California), *Professor of Mathematics*
- WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*
- CAROLINE ROBBINS, PH.D. (University of London), *Professor of History*
- ALEXANDER COBURN SOPER, M.F.A., PH.D. (Princeton University), *Professor of History of Art*¹
- ARTHUR COLBY SPRAGUE, PH.D. (Harvard University), *Mary E. Garrett Alumnae Professor of English Literature*
- K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and Political Theory*
- ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*
- EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*
- ROGER HEWES WELLS, PH.D. (Harvard University), *Professor of Political Science*
- MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College), *Professor of English*
- DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of Geology*
- PETER BACHRACH, PH.D. (Harvard University), *Associate Professor of Political Science*
- MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Professor of Economics*
- WARNER B. BERTHOFF, PH.D. (Harvard University), *Associate Professor of English*
- DONALD ROBERT BROWN, PH.D. (University of California), *Associate Professor of Psychology*

1. On partial leave of absence for the year, 1961-1962.

- ROBERT L. CONNER, PH.D. (Indiana University), *Associate Professor of Biology*¹
- FREDERIC CUNNINGHAM, JR., PH.D. (Harvard University), *Associate Professor of Mathematics*
- ROBERT SIMON DAVIDON, PH.D. (University of Pennsylvania), *Associate Professor of Psychology*
- FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate Professor of Russian, on joint appointment with Haverford College*
- ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate Professor of History*
- JAMES W. FOWLE, PH.D. (Harvard University), *Associate Professor of History of Art*
- LOUIS GOLDSTEIN, PH.D. (University of Minnesota), *Associate Professor of Social Work and Social Research*
- ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Professor of Physics*
- MELVILLE T. KENNEDY, JR., PH.D. (Harvard University), *Associate Professor of Political Science*
- GEORGE L. KLINE, PH.D. (Columbia University), *Associate Professor of Russian and Philosophy*
- HERTHA KRAUS, PH.D. (University of Frankfurt), *Carola Woerishoffer Associate Professor of Social Work and Social Research*
- HUGUES LEBLANC, PH.D. (Harvard University), *Associate Professor of Philosophy*
- GERTRUDE C. K. LEIGHTON, LL.B. (Yale University), *Associate Professor of Political Science*²
- PHILIP LICHTENBERG, PH.D. (Western Reserve University), *Associate Professor of Social Research*
- WILLIAM C. LOERKE, M.F.A., PH.D. (Princeton University), *Associate Professor of History of Art*
- ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Associate Professor of English*¹

1. On sabbatical leave for the year, 1961-1962.

2. On leave of absence for the year, 1961-1962.

MARIO MAURIN, PH.D. (Yale University), *Associate Professor of French*

EDMUND V. MECH, PH.D. (Indiana University), M.S.S. (Bryn Mawr College), *Associate Professor of Social Work and Social Research*

MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Associate Professor of Classical and Near Eastern Archaeology*

JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*

BERNARD ROSS, M.S.S.A. (University of Pittsburgh), PH.D. (University of Michigan), *Associate Professor of Social Work and Social Research*

EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor of Sociology*¹

CHRISTOPH E. SCHWEITZER, PH.D. (Yale University), *Associate Professor of German*

WILLIAM AUGUST WILSON, JR., PH.D. (University of California), *Associate Professor of Psychology*

GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*

MICHEL GUGGENHEIM, PH.D. (Yale University), *Assistant Professor and Associate Professor-elect of French*

JEAN D. HARING, M.A. (Ohio State University), M.S.W. (University of Michigan), *Lecturer and Associate Professor-elect of Social Work and Social Research*

DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Assistant Professor and Associate Professor-elect of History*²

ROSE SEGAL, M.S. (Simmons College School of Social Work), *Associate Professor-elect of Social Work and Social Research*

1. On leave of absence for the year, 1961-1962.

2. On sabbatical leave for the year, 1961-1962.

- JAMES A. BRODERICK, PH.D. (Harvard University), *Assistant Professor of English*
- ROBERT B. BURLIN, PH.D. (Yale University), *Assistant Professor of English*
- ROBERT HAWES BUTMAN, M.A. (University of North Carolina), *Assistant Professor of English on the Theresa Helburn Fund*
- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*
- EDWARD B. HARPER, PH.D. (Cornell University), *Assistant Professor of Anthropology*¹
- SYLVIA W. KENNEY, PH.D. (Yale University), *Assistant Professor of Music*
- WILLARD FAHRENKAMP KING, PH.D. (Brown University), *Assistant Professor of Spanish*²
- FRANK BRYANT MALLORY, PH.D. (California Institute of Technology), *Assistant Professor of Chemistry*
- HUGO SCHMIDT, PH.D. (Columbia University), *Assistant Professor of German*
- JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Assistant Professor of Chemistry*
- WILLIAM PAUL GANLEY, PH.D. (University of Buffalo), *Assistant Professor-elect of Physics*
- RICHARD C. GONZALEZ, PH.D. (University of Maryland), *Lecturer and Assistant Professor-elect of Psychology*
- JANE COLLIER KRONICK, PH.D. (Yale University), *Instructor and Assistant Professor-elect of Social Work and Social Research*
- RUTH C. PEARCE, PH.D. (University of Pennsylvania), *Instructor and Assistant Professor-elect of Russian*
- BRUNILDE SISMONDO RIDGWAY, PH.D. (Bryn Mawr College), *Assistant Professor-elect of Classical and Near Eastern Archaeology*

1. On leave of absence for the year, 1961-1962.

2. On leave of absence, Semester II, 1961-1962.

FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*

SAMUEL W. BLOOM, PH.D. (University of Wisconsin), *Lecturer in Sociology*

GALIA S. BODDE (Far Eastern University), *Part-time Lecturer in Russian*

CHARLES J. COOPER, LL.B. (Harvard University), *Part-time Lecturer in Political Science*

FREDERICK S. DUNN, PH.D. (Johns Hopkins University), *Visiting Lecturer in Political Science*

SARAH C. FLEMISTER, PH.D. (Duke University), *Part-time Lecturer in Biology*

JANE C. GOODALE, PH.D. (University of Pennsylvania), *Lecturer in Anthropology*

R. MARTIN HARRISON, B.A. (Oxford University), *Lecturer in Classical and Near Eastern Archaeology*

JAMES J. JOHN, D.S.M. (University of Notre Dame), *Visiting Lecturer in History and Mediaeval Latin*

M. PAULINE JONES, M.A. (Middlebury College), *Lecturer in French*

VICENTE LLORÉNS, *Licenciado en Filosofia* (University of Madrid), *Visiting Lecturer in Spanish for Semester I*

ETHEL W. MAW, PH.D. (University of Pennsylvania), *Part-time Lecturer in Education*

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director of Phebe Anna Thorne School and Part-time Lecturer in Education*

ELIZABETH M. MONGAN, A.B. (Bryn Mawr College), *Visiting Lecturer in History of Art*

LYLE W. PHILLIPS, PH.D. (University of Illinois), *Part-time Lecturer in Physics*

JEANNE C. POLLOCK, M.S.W. (University of Pennsylvania School of Social Work), *Lecturer in Social Work*

JEAN A. POTTER, PH.D. (Yale University), *Visiting Lecturer in Philosophy and Religion*

- ERIKA SCHMIEDBAUER, PH.D. (University of Vienna), *Lecturer in German*
- ALAN SILVERA, M.A. (Harvard University), *Lecturer in History*
- ROSAMOND KENT SPRAGUE, PH.D. (Bryn Mawr College), *Part-time Lecturer in Greek*
- JEAN-PAUL WEBER, D. ès L. (University of Paris), *Lecturer in French*
- ERIKA ROSSMAN BEHREND, A.M. (University of Pennsylvania), *Research Associate in Psychology*
- DONALD H. BULLOCK, PH.D. (Columbia University), *Research Associate in Psychology*
- HENRY GLEITMAN, PH.D. (University of California), *Research Associate in Psychology*
- B. C. JOSHI, D. PHIL. (University of Allahabad), *Research Associate in Chemistry*
- PHOEBE S. LEOY, A.B. (Swarthmore College), *Research Associate in Biology*
- LARRY STEIN, PH.D. (University of Iowa), *Research Associate in Psychology*
- MARTHA HELSON WILSON, PH.D. (Yale University), *Research Associate in Psychology*
- GERALD ACKERMAN, M.F.A. (Princeton University), *Instructor in History of Art*
- JANE SCHWARTZ BENJAMIN, PH.D. (Yale University), *Part-time Instructor in History*
- ANN EVANS BERTHOFF, M.A. (Radcliffe College), *Part-time Instructor in English*
- SANDRA M. BERWIND, M.A. (Bryn Mawr College), *Part-time Instructor in English*
- LOUISE DYCKMAN, PH.D. (University of Pennsylvania), *Instructor in Education*
- MIGUEL GONZALEZ-GERTH, M.A. (University of Texas), *Instructor in Spanish*
- GABRIELLE S. HOENIGSWALD, M.A. (Bryn Mawr College), *Part-time Instructor in Latin*

FREDERIC G. LAYMAN, M.S. (Harvard University), *Instructor in Geology*

LYDIA HALLE LENAGHAN, PH.D. (Bryn Mawr College), *Instructor in Latin*

RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*

DORIS QUINN, M.A. (Oxford University), *Part-time Instructor in English*

CATHERINE RODGERS, B.A. (Oxford University), *Instructor in English*

KATRIN TAEGER, M.A. (Bryn Mawr College), *Part-time Instructor in German*

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WILLIAM W. VOSBURGH, PH.D. (Yale University), *Instructor in Social Work and Social Research*

AVERY D. ANDREWS, II, M.A. (University of Pennsylvania), *Instructor-elect in History on joint appointment with Haverford College*

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PATRICIA MILLAR, M.S.S. (Bryn Mawr College), *Instructor-elect in Social Work and Social Research*

MARILYN ZIRK PRYOR, PH.D. (University of Tennessee), *Instructor-elect in Biology*

PHYLLIS TURNBULL, M.A. (Columbia University), *Instructor-elect in Spanish for Semester II*

WILLIAM A. WISDOM, M.A. (New York University), *Part-time Instructor-elect in Philosophy*

FRITZ JANSCHKA, *Akademischer Maler (Akademie der Bildenden Künste), Artist in Residence*

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ROBERT ANDERSON, B.S. (Drexel Institute of Technology), *Part-time Assistant in Biology*

- ANN HARNWELL ASHMEAD, PH.D. (Bryn Mawr College), *Part-time Assistant in Classical and Near Eastern Archaeology*
- ELIZABETH BANCROFT, A.B. (Vassar College), *Part-time Assistant in English*
- DEBORAH A. BOYD, A.B. (College of Wooster), *Part-time Assistant in Mathematics*
- CAROLINE MANNING CUNNINGHAM, M.A. (Wesleyan University), *Part-time Assistant in Music*
- CHARLES EVERS, B.S. (Drexel Institute of Technology), *Part-time Assistant in Chemistry*
- STILES DEAN EZELL, A.B. (Lafayette College), *Part-time Assistant in Biology*
- HELEN T. FARR, A.B. (Bryn Mawr College), *Part-time Assistant in Economics*
- MARY ANN FRITZ, M.S. (University of Pennsylvania), *Part-time Assistant in Biology*
- RICHARD A. GILLIS, A.B. (Kenyon College), *Part-time Assistant in Political Science*
- JOAN GRACE, B.S. (Ursinus College), *Part-time Assistant in Physics*
- VIRGIL A. GRAF, A.B. (Rutgers University), *Part-time Assistant in Psychology*
- BEVERLY MARSTERS, A.B. (University of New Hampshire), *Part-time Assistant in Geology*
- JANE R. McCONNELL, PH.D. (Bryn Mawr College), *Part-time Assistant in Biology*
- MARY PATTERSON MCPHERSON, M.A. (University of Delaware), *Part-time Assistant in Philosophy*
- MILLARD MIER, A.B. (Occidental College), *Part-time Assistant in Physics*
- JOAN MULLER, A.B. (Goucher College), *Part-time Assistant in History of Art*
- ELAINE PIMSLER, A.B. (Carleton College), *Part-time Assistant in Philosophy*
- ELIZABETH LUCIA PINNER, M.S.W. (University of Pittsburgh), *Part-time Assistant in Social Work and Social Research*
- DOROTHEA J. RHEA, M.A. (Bryn Mawr College), *Part-time Assistant in Mathematics*

WILLIAM A. ROBERTS, B.S. (University of Maryland), *Part-time Assistant in Psychology*

RICHARD SAKURAI, B.A. (Reed College), *Part-time Assistant in Physics*

JEWEL W. TEMPLETON, A.B. (Wilson College), *Part-time Assistant in Chemistry*

SUZANNE P. VARIMBI, M.A. (Bryn Mawr College), *Part-time Assistant in Chemistry*

PRISCILLA WATSON, A.B. (Reed College), *Part-time Assistant in Physics*

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CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*

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CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*

PAUL W. KLUG, C.P.A., B.S. (Temple University), *Comptroller*

KATHERINE Y. MASELLA, A.B. (Bryn Mawr College), *Assistant to the Director of Admissions*

CLARISSA WARDWELL PELL, *Executive Director of the Resources Committee*

PATRICIA ONDERDONK PRUETT, M.A. (Bryn Mawr College), *Assistant Dean of the College*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

Library

JANET MARGARET AGNEW, M.A. (University of Manitoba), *Head Librarian*

PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

ELIZABETH AMANN, M.L.S. (Rutgers University), *Assistant in Cataloguing Department*

DOROTHY V. MCGEORGE, B.S.L.S. (Drexel Institute), *Order Librarian*

YILDIZ VAN HULSTEYN, M.S.L.S. (Drexel Institute), *Librarian, West Wing*

LOIS E. WELLS, M.S.L.S. (Drexel Institute), *Assistant in Circulation Department*

Halls of Residence

BARBARA BROOME, A.B. (Bryn Mawr College), *Warden-elect*

JEAN ELDER, B.A. (University of Toronto), *Senior Resident of the Graduate Center*

DULCIE GROVES, B.A. (University of Nottingham), *Warden of Denbigh*

MARLENE HUNT, B.A. (University of British Columbia), *Warden-elect*

HELENE LUCAS, *Licence ès lettres* (University of Paris), *Warden-elect of Wyndham*

MARYANN ROBBINS, M.S. (University of North Carolina), *Warden-elect*

SARAH RUBIN, A.B. (Bates College), *Warden-elect*

ALESANDRA SCHMIDT, M.A. (University of Pennsylvania), *Warden-elect*

JANE WILLIAMSON, M.A. (Bryn Mawr College), *Warden of the Jane Batten House*

Health

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physician*

FRIEDA W. WOODRUFF, M.D. (University of Pennsylvania), *Assistant College Physician*

JOHN F. HOWKINS, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ETHEL GRANT, *Instructor in Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Director*

ELIZABETH PRESTON, M.S.S. (Bryn Mawr College), *Social Caseworker*

ELIZABETH WHEELER, M.S.S. (Bryn Mawr College), *Social Caseworker*

CORNELIA T. BIDDLE, A.B. (Bucknell University), *Part-time Social Caseworker*

ELIZABETH EMLÉN, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

VIRGINIA G. KEEN, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*

MARGARET MENDELSON, M.S.W. (Acadia University), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSON, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

ELI HARMON, M.D. (Tulane University School of Medicine), *Consulting Psychiatrist*

JONAS B. ROBITSCHER, M.D. (George Washington University), *Consulting Psychiatrist*

HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*

CAROL HATCH ROBERTS, A.B. (Wilson College), *Assistant*

Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*

GEORGIANNA ENGSTROM, A.B. (University of Minnesota), *Teacher*

ELLEN KRANTZ, A.B. (Barnard College), *Assistant Teacher*

CLAIRE FAUST STEPHENS, A.B. (Swarthmore College), *Assistant Teacher*

Introduction

BRYN MAWR COLLEGE was founded by a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

This concern about opportunity for women to study at the university level was first felt by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college for women with undergraduate instruction for the A.B. and graduate instruction for the M.A. and Ph.D. degrees in all departments.

The first president of Bryn Mawr College was James E. Rhoads, a retired physician and one of the Trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads. In 1922, she was followed by Marion Edwards Park, already distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 80 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research, yet the College remains a compact unit for living and working.

Bryn Mawr has preserved the purpose and much of the tradition of its founders. It believes that intellectual enrichment and discipline provide a sound foundation for living. It believes in

the rights of the individual and in freedom to think and act as intelligent and responsible members of a democratic society.

By the terms of its charter Bryn Mawr College provides instruction in the liberal arts and sciences on both the undergraduate and graduate level. Members of the faculty usually combine graduate and undergraduate teaching. Teaching and research are found to complement each other, and the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so obscure that it may not profit from a breadth of perception.

Believing that a small college provides the most favorable opportunity for the students to participate actively in their own education, Bryn Mawr College limits the number of undergraduates to approximately seven hundred students. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and Swarthmore College in a plan which coordinates the facilities of the three institutions while preserving the individual qualities and autonomy of each.

Bryn Mawr College sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectureships bring scholars and other leaders in world affairs to the campus for series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the Humanities and of the Anna Howard Shaw Lecturer in the Social Sciences, and by various individual lecturers in many of the departments of the College. Several of the student organizations also arrange conferences and lectures both on current national and international problems and within particular fields of interest. The musical, dramatic and dance productions of the

College are directed and arranged by the appropriate student organizations, often in cooperation with Haverford College students, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop provides facilities for experimental theater work and a studio for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity. Two large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many specialized clubs and societies which are open to all and which provide opportunities for critical and creative efforts.

There are other associations and groups in which membership is voluntary. The Interfaith Association with the guidance of the Committee on Religious Life of the Board of Directors and members of the Faculty plans the Sunday Services, sponsors lectures and discussions on religious topics and takes the responsibility for giving students an opportunity to pursue and extend their religious interests. The Alliance for Political Affairs sponsors lectures and a series of groups organized for discussion or action. The Bryn Mawr League concerns itself with problems of social welfare and various branches of social service to the community at large, and the Athletic Association plans the extra-curricular athletic program.

Opportunities for the cultivation of clear thinking and informed reasoning, for exercise in the privileges and responsibilities of community life, and for practice in the critical and creative arts are thus present to each undergraduate student at Bryn Mawr. As she continues through the four undergraduate years, she should begin to know too the personal satisfactions and rewards that are the common heritage of scholars.

Admission

BRYN MAWR COLLEGE is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school principal and some of her teachers for an estimate of her character, maturity and readiness for college.

The Director of Admissions welcomes correspondence and interviews with candidates, their parents and school advisers. Representatives of the College and of the Alumnae Association and Alumnae Information Chairmen in various sections of the country are glad to interview candidates. Names and addresses may be secured from the Admissions Office.

PROGRAM OF SECONDARY SCHOOL STUDIES

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving excellent preparation for study at Bryn Mawr would be, for example, as follows: English grammar, composition and literature throughout four years; Mathematics, emphasizing basic algebraic, geometric and trigonometric concepts and deductive reasoning; a good foundation in one modern language and in Latin or Greek; some work in History and at least one course in science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up the total of 16 credits generally recommended for admission to the College.

Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs that differ from the one described above. The College is glad to consider applications from such students provided that they have maintained continuity in the study of basic subjects.

APPLICATION FOR ADMISSION

Students are advised to apply for admission to Bryn Mawr before the end of the junior year in high school. Early registration allows time for consultation about school programs and assures the student of receiving up-to-date information about the College. Admitted candidates are assigned rooms in order of date of registration.

Only in exceptional circumstances will applications to the freshman class be accepted after January 15 of the student's senior year.

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of \$15 must accompany each application and is not refundable. Application does not insure admission.

ENTRANCE TESTS

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates with the exception of students who have been admitted to the universities of other countries. The Aptitude and Achievement Tests should be taken in December or January of the senior year in secondary school. Bryn Mawr prefers that candidates offer Achievement Tests in English, in a foreign language, and in one of the following: Social Studies, one of the sciences, or in Intermediate or Advanced Mathematics. Bryn Mawr does not require the English Writing Sample Test offered by the College Entrance Board. A student taking the Writing Sample for another college, however, should have the sample sent to Bryn Mawr. No special preparation, other than work well done in a good school, is required for successful performance on these tests. A trial run of the Scholastic Aptitude Test in March or May of a student's junior year is advised. Students who, because of the changes in the College Board testing schedule, must offer as final achievement tests one or two of those taken in the spring of the junior year should notify the Director of Admissions. Candidates will be notified late in April of the senior year as to whether or not they will be admitted to the College.

Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey, or P.O. Box 27896, Los Angeles 27, California.

EARLY DECISION PLAN

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (about December 1) as to the action taken on her application, provided she follows the plan outlined below:

1. She must be recommended by her school as a strong candidate and must take her *final* Scholastic Aptitude and three Achievement Tests (English and any two others) in March or May of the junior year.
2. After her school has reviewed the results of these tests together with her three-year high school record, she must file before October 1, in addition to a regular registration, a statement obtained from the College that she is a candidate under the Early Decision Plan.
3. She will be notified by the College in early December (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission, repeating the Scholastic Aptitude Test and three Achievement Tests in the winter of her senior year, and filing an application with at least one other college, or (3) that she should withdraw her application to Bryn Mawr.
4. A student who has been assured of admission by December 1 will be asked to make a deposit of \$200 by February 1 if she wishes to reserve a place in residence at Bryn Mawr College. This deposit will be deducted from her first semester bill.

ADVANCED PLACEMENT

Students who have carried advanced work in school may, after consultation with the Dean and the departments concerned, be admitted to one or more advanced courses in the freshman year if they have made honor grades on the Advanced Placement Tests of the College Entrance Examination Board. These tests are given at Board centers in May. Students should also see the Dean about the advisability of taking placement tests given by the College during Freshman Week.

TRANSFER AND FOREIGN STUDENTS

Students are admitted on transfer from American and foreign colleges and universities approved by the College. To be ad-

mitted on transfer, a student must have an excellent school record and, in college work, at least a high "B" average. A transfer applicant should submit to the College:

1. A letter explaining why she wishes to transfer and her plans for the major subject.
2. A current catalogue of her own college, in which she has marked the courses taken.
3. Transcripts of her high school and college courses.
4. Official test reports from the College Entrance Examination Board on the Scholastic Aptitude Test and three Achievement Tests if the candidate has taken them previously.

Transfer candidates who have not taken these tests will be required to take only the Scholastic Aptitude Test in the March or May series. Information concerning this test and applications to take it may be obtained from the College Entrance Examination Board. (For address see page 27.)

Foreign students may substitute for the College Board tests evidence that they have been admitted to universities in their own countries. Those whose native language is not English must also present credentials attesting to proficiency in English.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree, transfer students must complete two years of study here. Students of other colleges or universities who have failed to meet the prescribed standards of academic work, or who have been put on probation or suspended or excluded, will under no circumstances be admitted.

NON-MATRICULATED STUDENTS

Women over twenty-five years of age may be admitted as non-matriculated students. They are called "Hearers" and may take undergraduate courses without a matriculation examination after furnishing proof that they have at some time pursued the studies required for matriculation. Hearers are clearly differentiated from regularly matriculated students and must obtain permission from each instructor to attend classes, laboratories and examinations. They are not eligible for degrees and may receive only such certificates of collegiate study as their instructors see fit to give. They are charged the full tuition fee. No other special students are admitted to undergraduate courses.

Academic Facilities and Residence

THE LIBRARY

THE M. CAREY THOMAS LIBRARY, containing about 285,000 volumes, is equipped to serve advanced graduate students and faculty as well as undergraduates. It is both a research and a study library. Periodicals in all subjects, of which about one thousand are currently received, contribute materially to the value of the collection.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room make readily available standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Rooms, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions and association copies. Exhibitions of items selected from the library's own resources and of material lent by friends of the Library are held at intervals during the academic year. Here also is the Marjorie Walter Goodhart Mediaeval Library, a collection of incunabula given by Howard L. Goodhart which numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for undergraduate students. Additional work space is available in the Reserve Book Room, the Reference Room, the Art Study and the carrels in the West Wing. Twelve seminar rooms are reserved for graduate students.

Haverford and Swarthmore Colleges and the libraries in Philadelphia are generous in making their resources available to

students. The Philadelphia Bibliographical Centre and Union Library Catalogue situated at the University of Pennsylvania enable the student to locate easily the material in approximately one hundred and seventy-five libraries in the Philadelphia metropolitan area.

Each of the science departments at Bryn Mawr has its own library, with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

ART AND ARCHAEOLOGY COLLECTIONS

A small but valuable group of original works of art, available for study, includes Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology houses the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various other gifts from friends of the College. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles and ceramics contains material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

LABORATORIES

The Department of Chemistry and Geology have their laboratories, libraries and classrooms in the Marion Edwards Park Hall. The Department of Biology is located in a new building adjoining Park Hall. This is the second of three buildings planned to provide in one unified group ample space and modern facilities for the natural sciences and mathematics. Funds are being raised so that it will be possible to construct the building for the Physical Sciences in the near future.

Physics, Mathematics and Psychology now occupy Dalton Hall, which will be released to provide for other departments when the Science Center is completed.

Both Dalton and the Science Center have facilities for graduate as well as undergraduate students. In addition to the usual

equipment, the science departments have special apparatus and instruments needed by faculty and graduate students in particular research projects. On occasion this equipment is made available to advanced undergraduates working on honors problems.

In the present Science Center there are new laboratories for the use of radioactive materials, a glass-blowing shop, and a laboratory for microphotography. In Dalton Hall there is a machine shop with an expert machinist in charge. There is also a student shop at the disposal of graduate students in Physics and seniors working on honors problems. In addition, there is a modest hot laboratory in which radioactive samples may be processed in connection with the programs of the various departments.

Each of the science departments has its own library including the appropriate scientific journals. The Geology Department also has over 25,000 maps on deposit from the United States Army Map Service. The Department's large collection of minerals has been greatly increased recently by the gift of the Mineral Collection of George Vaux, Junior.

LANGUAGE LABORATORY

The Modern Language Departments jointly maintain a Language Laboratory. Its library of tapes contains recordings from the various literatures as well as material especially prepared for language drills. The simple but versatile modern equipment offers opportunities to improve both the speaking and comprehension proficiency of the student of foreign languages.

Residence

HALLS OF RESIDENCE

There are on the campus eight halls of residence, which provide full living accommodations for fifty to eighty-five students each, and three smaller halls, one of which is used as a language house for upperclassmen. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E. Rhoads.

A resident warden is in charge of each hall; she is an instructor or a graduate student, who is also a member of the Dean's staff and, like the Dean, is interested in all aspects of the student's welfare and her progress in college.

Although the College offers a variety of living accommodations, most students have single rooms. Some suites and double rooms are available. For all the rooms the College provides the necessary furniture, but students are expected to supply their own rugs and curtains and any other accessories they may desire.

Each of the large halls is a complete residence unit, with its kitchen and dining room, except Pembroke East and West and Rhoads North and South, which have common kitchens and dining rooms for the two wings. There are both large and small public rooms in every hall, where students may entertain their guests and gather together for study or recreation. The maintenance of the hall is under the direction of a Hall Manager who, under the supervision of the College Dietitian, is also responsible for the preparation and serving of the meals. It is not possible to arrange for the cooking or serving of special foods or diets in the halls of residence.

RULES FOR RESIDENCE

Residence in the college buildings is required of all undergraduates except those living with their families in Philadelphia or the vicinity. Because of the great demand for rooms married students, except in unusual cases, are not admitted to residence.

A student enrolled in the College who plans to be married must inform the Dean of her intentions well in advance of the date of her marriage and must make arrangements for living that meet with the Dean's approval. *Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in the College.*

The College maintains its halls of residence in order to provide simple, comfortable living for its students. It expects students to respect its property and the standards on which the halls are run. A printed statement of residence regulations is given each student for her guidance during the academic year. The College makes every effort to keep the residence charge low; the present rates are possible only because the students have agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service.

Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the halls are closed during the Christmas vacation. One hall is kept open during the spring vacation and here undergraduates may occupy rooms at a fixed rate per day.

NON-RESIDENT STUDENTS

Students who live with their families in Philadelphia and the vicinity have at their disposal a room in the Library where lockers are provided. Their college mail and notices about campus activities are sent there. Rooms in Goodhart Hall for teas and special occasions are also available on request. The warden of one of the halls of residence serves as warden to the non-residents.

When space permits, non-resident students may make arrangements with the Director of Residence to have meals in the residence halls. Meals are also served on campus at the College Inn.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. The non-resident Dispensary fee of \$15 entitles them to medical examination and consultation with the College Physician. For health fees, see page 40.

Non-Resident Enrolment Fee. A non-resident student who wishes to enroll for the following year must make a deposit of \$25 not later than June 1. This deposit will be credited against the tuition charge.

Fees

TUITION

THE tuition fee for all undergraduate students, resident and non-resident, and for hearers is \$1250 a year. The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is about \$2440 a year. The difference must be met from income on endowment and from private gifts. Contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

RESIDENCE

The charge for residence is \$1150, \$1250 or \$1350, according to the size and location of the student's room or rooms. The residence fees are payable as follows:

\$1150—payable \$575 in October, \$575 in February

\$1250—payable \$625 in October, \$625 in February

\$1350—payable \$675 in October, \$675 in February

Application for Residence. A student in residence, who wishes to apply for a room for the following year, must make an application for a room and accompany it with an application fee of \$10. This fee will be credited against the residence charge if the room assigned is occupied by the applicant; it will not be refunded in any circumstance. Each student enrolled for the following year must make an additional deposit of \$40 not later than June 1. This deposit will also be credited against the residence charge. It will be returned if the student withdraws from College before June 15; it will not be returned if she withdraws later than June 15.

New students applying for residence will be billed \$50 in the spring. This \$50 will be credited against the residence charge, but it will not be returned in case of withdrawal after June 15.

New students assured admission under the Early Decision Plan will be asked to make a room deposit of \$200 by February 1.

An applicant who, after having reserved a room, fails to cancel her reservation by August 1 (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by August 1, the applicant is responsible for the residence charge (based upon the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of \$1150, subject to an allowance for the cost of food and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

Reduction of Charges for Absence from College. In case of illness or withdrawal from the College for a period of six consecutive weeks or longer there will be a reduction in the charge for residence (representing the reduced expense to the College for food), provided written notice is given to the Dean of the College at the time of withdrawal, or, in the case of illness at home, as soon as possible. Verbal notice to wardens or instructors is not sufficient to secure this reduction.

SUMMARY OF MAJOR EXPENSES

For resident students, tuition and residence: \$2400, \$2500, or \$2600 according to the type of accommodation.

For non-resident students, tuition: \$1250.

Minor Fees and Charges

Laboratory courses (or, in Geology, field work) for materials and apparatus:

One course of 2 hours or less a week	\$ 7.50	} a semester
One course of more than 2 hours a week	15.00	
Two courses of more than 2 hours a week	25.00	
Three courses of more than 2 hours a week	30.00	

Graduation fee (payable in the senior year) 20.00

Health Insurance (Students' Reimbursement Plan) 15.00 a year

Dispensary fee for non-resident students 15.00

Bills will be rendered by the Comptroller at the beginning of each semester. Students whose fees and charges are not paid before November 1 in the first semester and before March 1 in the second are not permitted to continue in residence or to attend their classes. The Education Plan is available for parents who prefer to pay fees in monthly instalments.

General Information

STUDENT ADVISING

THE Deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of the College and the Assistant Dean each advise two classes. The warden, the college officer in charge of each residence hall, is a member of the Dean's staff and stands ready to assist students. The College Physician, the consulting psychiatrists, study counselors and vocational advisers are also available to all students. The deans and the wardens will always give students information about appointments with these specialists.

For freshmen, the College provides a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome them and are available to answer questions and give advice. The freshmen have interviews with the President or the Dean of the College and consult with the deans on registration of courses. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, activities are sponsored by the undergraduate organizations.

ACADEMIC STANDARDS AND REGULATIONS

Faculty rules governing academic work and the conduct of courses are stated in the "Academic Rules for Undergraduate Work." Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the Senate may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases the Senate may recommend exclusion from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the conduct of examinations, written quizzes, and other written work is given to all entering students, who must sign a statement that they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the faculty and the Dean of the College or the Assistant Dean.

ATTENDANCE AT CLASSES

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. When the quality of a student's work is affected in any way by absence from class, she will be warned in writing by the Dean. If she continues to cut after the warning, she will be dropped from the course and reported to the Senate. A student who is dropped from two courses will be suspended from the College, by rules of the Senate, for the remainder of the semester.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructor about making up the work. In the case of a prolonged absence the Dean must be consulted as well as the instructor. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

EXCLUSION

The College reserves the right to exclude at any time a student whose conduct or academic work is unsatisfactory. In such cases the fees due or already paid to the College will be neither refunded nor remitted in whole or in part.

HEALTH

An extensive program, including periodic physical examinations and regular work during the first two years in the Department of Physical Education, has been established to help students

develop and maintain optimum conditions of health. Students receive clinic and hospital care in the College Dispensary and Infirmary, where a College Physician is in daily attendance. The College maintains a modern 22-bed infirmary with a full staff of physicians and nurses. The Bryn Mawr Hospital and other excellent hospitals in nearby Philadelphia offer additional medical and surgical facilities.

The College physicians and psychiatrists may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is required. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July first. As part of this health report, certification of immunization against tetanus and diphtheria, vaccination against smallpox, a Mantoux test and ophthalmologist's certificate are required. If the Mantoux test is reported positive a chest X-ray is necessary. (Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival and will be charged accordingly.)

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement necessitates an examination by one of the College consultants, for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every undergraduate is examined in her freshman and senior years by the College Physician and in her freshman year by the Director of Physical Education as to physical development and general health. Students who have special health problems are examined more frequently. A student who at the time of an examination or at any other time during the year is not in good health is required to follow the special regime prescribed, and her extracurricular activities may be limited.

The residence fee paid by resident students entitles them to treatment in the College Dispensary and to care in the College Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College physicians during this time and to general nursing. In cases requiring a special nurse, the

expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is nine dollars. The Infirmary is open when college is in session and during spring vacation. It is closed during Christmas vacation.

Non-resident students must pay a fee of \$15, which entitles them to unlimited dispensary and laboratory service and free consultation with the College physicians and psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or to the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present a signed statement to the Infirmary from her physician when she returns.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Students' Reimbursement Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to resident students. The cost is \$15 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

THE EDUCATION PLAN

Since some parents prefer to pay tuition and other college fees in equal monthly instalments during the college year, the College offers this convenience under the Bryn Mawr Trust Company. The cost of a one- or two-year contract is four per cent greater than when payment is made in cash. The interest rate is slightly higher for three- or four-year contracts. All contracts include the benefit of parent life and total and permanent disability insurance.

INSURANCE

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually.

Curriculum

THE undergraduate curriculum is designed to achieve two main purposes: to give a broad and sound education in the liberal arts and sciences, and to provide adequate preparation for advanced study for those students who wish to enter graduate and professional schools.

In order to assure breadth in the curriculum the College has established the following requirements which must be met by all candidates for the A.B. degree regardless of their choice of major subject: (1) Freshman English composition, (2) History of Philosophic Thought, (3) one course in the natural sciences, (4) one course in literature and (5) one course in the social sciences or history. Each student must also demonstrate a knowledge of two foreign languages. This may be done by (1) attaining a score of 590 on a College Board achievement test, taken in the senior year of high school, (2) passing examinations offered by the College every spring and fall, or (3) passing with a grade of at least 70 a college course above the elementary level before the Senior year.

The major subject, chosen at the end of the sophomore year, is combined with work in allied subjects. The purpose of the major subject is to give each student the kind of training that continuity in the study of one field of knowledge provides. As she progresses toward more complex advanced work she acquires a deeper insight into the fundamental principles and general concepts of her subject. At Bryn Mawr the departments offering major courses of study are: Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, English, French, Geology, German, Greek, History, History of Art, Italian, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology and Anthropology, Spanish. The departments of Education and History of Religion offer elective work which may be allied with certain major subjects but no separate majors.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of a more advanced character than that done in the regular courses and requires more initiative and power of

organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible a student must have completed two years of study in the major subject, and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

The plan for the curriculum determines the framework within which each student constructs her own program of courses.

The minimum of $15\frac{1}{2}$ units of work for the A.B. degree is distributed as follows: $4\text{--}5\frac{1}{2}$ units meet general college requirements, approximately 7 units constitute work in the major subject including allied work and the preparation for the Final Examination in the major subject, required of all students. The remaining units ($3\text{--}4\frac{1}{2}$) are for courses to be elected freely by the student. Each full year course is the equivalent of one unit of work and each course constitutes one quarter of a student's working time for one year. For the benefit of transfer students, one course is the equivalent of 8 semester hours. In most cases, Freshmen, Sophomores and Juniors take 4 units of work and Seniors $3\frac{1}{2}$, including the unit of preparation for the Final Examination in the major field. This preparation usually consists of independent reading and conferences with members of the major department designed to review and correlate the material covered in the major.

A student may be exempt from one or more of the required courses on the basis of advanced, college-level courses taken in secondary school and approved and tested by the particular departments concerned. One or more of the requirements may be met by summer school courses which are approved by the departments concerned and by the Dean.

The plan for the curriculum may be outlined as follows:

I. A total of at least $15\frac{1}{2}$ units of work must be presented by all candidates for the A.B. degree. The total is made up of $14\frac{1}{2}$ units of course work and one unit of preparation for the Final Examination in the major subject.

II. The $14\frac{1}{2}$ units of course work must include the following:

1. The course for Freshmen in English Composition. This course is supplemented by work in English Speech, consisting of individual conferences, which must be completed before the end of the Sophomore year.

2. A course in literature to be chosen from certain courses in English and Biblical Literature, Greek or Latin.

3. A course in one of the following sciences: Biology, Chemistry, Geology or Physics.

4. The course in History of Philosophic Thought.

5. A course in social science to be chosen from offerings in Economics, History, Political Science, Psychology or Sociology and Anthropology.

6. Although no specific course or courses are required, each student must demonstrate a knowledge of two foreign languages. (See page 41.)

Language examinations may be taken in any autumn or spring after entrance, up to the beginning of the senior year. A Senior who fails either examination or is conditioned in both in the autumn will not receive her degree the following June. If having passed one examination she is conditioned in the other, she may take a second examination in January.

III. The total number of at least $15\frac{1}{2}$ units of work must include a major subject chosen at the end of the sophomore year. The major subject must consist of:

1. Six units of work to be distributed as follows:

a. At least three and usually four courses of work in the major field. Of these one or two must be second-year courses, and one must be advanced.

b. The remaining number of courses to make up the required total of six to be chosen among the courses listed by the major departments as acceptable for allied work.

2. One unit of preparation for the Final Examination in the major subject. All students who receive the degree must have passed this examination.

IV. Elective work. The remaining units of work making up the required total of $15\frac{1}{2}$ are devoted to elective courses. Students may choose freely any courses which do not have prerequisites or any courses whose prerequisites they can meet.

V. Grades. Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in her major subject, she may be required to change her major.

VI. The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude*, *magna cum laude*, and *summa cum laude* to students whose numerical average in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

VII. Credit for work taken elsewhere:

1. Transfer credit (see page 29)
2. Cooperation with Neighboring Institutions

Under the Three-College Plan for Cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registrations must be approved by the Dean and the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so. Students who wish to present summer school work for credit should first obtain approval of their plan from the Dean and from the department concerned. No credit will ever be given for work in which a student has received a grade below C. Credit given will be calculated on an hour-for-hour basis.

VIII. Supplementary requirements for the Degree:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

a. All students must fulfill the requirement in English Speech. This consists of an interview-test during the freshman year, to be followed by remedial work (in conference, without credit), ordinarily throughout the first semester, for those needing it.

b. Hygiene

All students must meet the requirements in Hygiene by passing an examination based on reading assigned by the College Physician and the Consulting Psychiatrists and given annually. The examination must be taken no later than the autumn of the junior year.

c. Physical Education

All students must meet the requirement in Physical Education, consisting of work taken throughout the freshman and sophomore years (see page 116).

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

PREMEDICAL PREPARATION

Bryn Mawr, through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enter these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools also stipulate Chemistry 201a, and reading facility in French and German.

The requirements are fulfilled by a major in Biology, with the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met

by a major in other subjects, such as literature or history, with careful planning of the student's courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student's choice as preparation for its courses of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on admission to medical school and are awarded at the end of the senior year for use during the first year of medical study, with the prospect of renewal for later years if the student's need and her record in medical school warrant it.

COORDINATION IN THE SCIENCES

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a Plan for Coordination in the Sciences. Under the plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects, such as biophysics, geochemistry, or psychophysics. The program necessarily demands a thorough grasp of the fundamentals of at least two sciences, and usually also of mathematics. This training may be obtained in the first three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through the grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these relatively new and extremely fruitful areas of scientific investigation. The chairmen of the departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their courses of study. Such students should consult with the chairmen of the departments in which their special interests lie as early in their course as it is possible to do so.

INTERDEPARTMENTAL COURSES

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses are taught by two or more members of the

faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide an opportunity to apply their training to new and broader problems and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

LANGUAGE HOUSES

Wyndham is a small residence open to upperclassmen who wish to speak French. Living in the language house requires adequate preparation in French, and students accepted agree not to speak English in the French House at any time. Residence in a language house provides an excellent opportunity to gain fluency in speaking a foreign language and is highly advisable for students planning to spend the junior year abroad. Whenever there is sufficient demand, similar residences are available to students of German and Spanish.

THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to the various groups spending the junior year in Europe. Bryn Mawr students may study in Paris under one of the junior year plans sponsored by Sweet Briar College or Smith College; in Geneva, Florence, Hamburg, or Madrid with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country where they plan to study. In general, two years of study at the college level are necessary to provide adequate language preparation. The junior year groups are not limited to language majors; they often include majors in, for example, History of Art, History or the social sciences. All students who plan to study abroad should consult the chairmen of their major departments to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

SCHOLARSHIPS AND OTHER STUDENT AID

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College over many years have built up endowment for scholarships. Annual gifts from alumnae and alumnae clubs and from industrial and professional groups add to the amounts available each year. It is now possible to provide at least partial scholarships for one quarter to one third of the undergraduate students in the College. Full information about the scholarships available and other forms of help for meeting the expenses of college education will be found in the section, Academic Awards.

Courses of Study

1961-1962

Key to Course Numbers and Symbols

- 1, 2, 3indicate elementary and intermediate courses.
With the exception of Greek 1 and Russian
1 these courses are not part of the major
work.
- 101, 102, etc.indicate first-year courses in the major work.
- 201, 202, etc.indicate second-year courses in the major
work.
- 301, 302, etc.indicate advanced courses in the major work.
- *indicates elective courses, open to all students
without prerequisite unless a specific pre-
requisite is stated.
- athe letter "a," following a number, indicates
a half-course given in the first semester.
- bthe letter "b," following a number, indicates
a half-course given in the second semester.
- cthe letter "c," following a number, indicates
a half-course given two hours a week
throughout the year.
- []Square brackets enclosing the titles of courses
indicate that these courses, though regular
parts of the program, are not given in the
current year.

In general, courses which are listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours, or eleven quarter hours.

Biology

PROFESSORS:	MARY S. GARDINER, PH.D., <i>Chairman</i> L. JOE BERRY, PH.D. JANE M. OPPENHEIMER, PH.D.
DEAN OF THE GRADUATE SCHOOL AND PROFESSOR:	ELEANOR A. BLISS, SC.D.
ASSOCIATE PROFESSOR:	ROBERT L. CONNER, PH.D. ¹
LECTURER:	SARAH FLEMISTER, PH.D.
INSTRUCTOR:	MARILYN ZIRK PRYOR, PH.D.
ASSISTANTS:	STILES DEAN EZELL, JR., A.B. MARY ANN FRITZ, M.S. JANE R. MCCONNELL, PH.D.
ASSISTANT UNDER THE PLAN FOR COORDINATION IN THE SCIENCES:	ROBERT ANDERSON, B.S.
ASSOCIATE PROFESSOR OF PHYSICS:	ROSALIE C. HOYT, PH.D.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in man's understanding of the world in which he lives and his own position in it. Primary consideration is devoted to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments. In the laboratory the student learns by dissection and microscopic study the gross and detailed anatomy of representative animals and plants, and by experimentation the functional relationships within them and their operation under natural and controlled experimental conditions.

REQUIREMENTS IN THE MAJOR SUBJECT: Biology 101, 201 and 202; one advanced course, and as allied work, Chemistry 101 and 202. Students who have not completed the prerequisite courses will be admitted to second year and advanced courses only by permission of the Department. Interdepartmental 203: *The Development of Scientific Thought* may be offered. Students offering two fields in Biology for the final examination,

1. On sabbatical leave for the year 1961-62

in addition to the examination in General Biology, must take two advanced courses. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work and are required for admission to some medical schools. The Biology Department has no special language requirements, but students should note that the ability to read French and German is essential for those expecting to do graduate work and is required for admission to some medical schools.

ALLIED SUBJECTS: Chemistry, Physics. Other subjects may be included, with the approval of the Department.

101. *General Biology*: Mr. Berry, Mrs. Flemister, Miss Gardiner, Miss Oppenheimer. Laboratory: Mrs. Flemister and assistants.

A presentation of the fundamental principles of development, structure and function in organisms. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory four hours per week.

201. *The Biology and Physiology of Vertebrates*: Miss Oppenheimer, Mr. Berry.

A study, supplementing that of the first-year course, of the anatomy of representative vertebrates, their physiology and natural history. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

202. *Invertebrate Biology and Cellular Physiology*: Miss Gardiner, Mrs. Pryor.

A survey of the anatomy and natural history of the invertebrates and a study of the functional problems met by living systems and of the mechanisms by which these are solved. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101, Chemistry 101, Biology 201, Chemistry 202 (may be taken concurrently).

301. *Theories of Inheritance*: Miss Gardiner.

A study of the various theories of inheritance leading to modern concepts of heredity in organisms. This may be taken concurrently with Biology 202. Lectures two hours, laboratory six hours (minimum) per week.

- [302. *Developmental Physiology*: Miss Oppenheimer.]

Discussion of factors controlling growth and differentiation in vertebrates and invertebrates. Lectures two hours, laboratory

six hours (minimum) per week. This may be taken concurrently with Biology 202.

[303. *Physiology of Micro-organisms*: Mr. Berry.]

An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and other interactions between organisms. Major emphasis is given to bacteria and bacteriological techniques. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Biology 202, Chemistry 202.

305. *Biochemistry*: Mrs. Pryor.

The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Chemistry 202, Biology 202; except by permission of the Department. Physics 101 is recommended.

306. *Biophysics*: Miss Hoyt.

The application of the methods of physics, both theoretical and experimental, to the study of some aspects of living systems. Lectures three hours, laboratory four hours (minimum) per week. Prerequisites: Biology 202, Chemistry 202, Physics 101, Mathematics 101 (except by special permission of the instructor).

FINAL EXAMINATION: The final examination is in three parts:

1. General Biology (required of all students).
2. Two examinations from the following group: Biochemistry, Biophysics, Theories of Inheritance, Development of Scientific Thought, Embryology, Physiology of Micro-organisms.
3. For one of the examinations in Part 2, students may substitute:
 the Honors paper
 or
 an examination in Chemistry or Physics covering at least two years of work in the subject.

Other subjects may be accepted for the third examination provided that at least two years of work have been done in the one offered.

HONORS WORK: Honors work in any of the advanced fields is offered to qualified students.

Chemistry

PROFESSOR:	ERNST BERLINER, PH.D. ¹ <i>Chairman</i>
ASSOCIATE PROFESSOR:	GEORGE L. ZIMMERMAN, PH.D.
ASSISTANT PROFESSORS:	FRANK B. MALLORY, PH.D. JOSEPH VARIMBI, PH.D.
LECTURER:	FRANCES BONDHUS BERLINER, PH.D.
ASSISTANTS:	CHARLES EVERS, B.S. JEWEL W. TEMPLETON, B.A. SUZANNE P. VARIMBI, M.A.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inorganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

REQUIREMENTS IN THE MAJOR SUBJECT: Chemistry 101, all 200 courses and one and one-half units of advanced work (exclusive of Chemistry 304a.) Physics 101, Mathematics 101 and a reading knowledge of German are also required. Students are urged to take also Mathematics 201.

ALLIED SUBJECTS: Biology, Geology, Mathematics, Physics.

101a. *General Chemistry*: Mr. Mallory, Mrs. Berliner and assistants.

An introduction to the theories of chemistry and the study of the non-metals. No knowledge of chemistry is presupposed. Three lectures, four hours laboratory a week.

101b. *Qualitative Analysis and the Chemistry of the Metals*: Mr. Mallory and assistants.

Systematic qualitative analysis of inorganic substances and the theories on which it is based. A study of the metallic elements. Three lectures, four hours laboratory a week.

1. On sabbatical leave, semester II, 1961-62.

201a. *Quantitative Analysis*: Mr. Varimbi.

Theories and practice of the quantitative determination and separation of inorganic substances. Two lectures, eight hours laboratory a week.

202. *Organic Chemistry*: Mr. Berliner, Mr. Mallory.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry*: Mr. Zimmerman.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures, five hours laboratory a week. Prerequisites: Mathematics 101, Physics 101 and Chemistry 201a. (The latter two may be taken concurrently.)

301b. *Inorganic Chemistry*: Mr. Varimbi.

A systematic study of the descriptive and theoretical chemistry of the elements and their compounds based on the Periodic Table. Two lectures, six hours laboratory a week.

302 (a and b). *Advanced Organic Chemistry*: Mr. Mallory, Mrs. Berliner.

Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and laboratory techniques. Two lectures, six hours laboratory a week. The first semester may be taken without the second ($1\frac{1}{2}$ unit).

303a. *Chemical Thermodynamics*: Mr. Zimmerman.

Two lectures and one conference a week. Laboratory in the second semester only: six hours a week.

303b. *Quantum Mechanics of Atoms and Molecules*: Mr. Green. (Haverford College, Chemistry 44.)

Three lectures a week. Prerequisite: Chemistry 304a.

304a. *Applied Mathematics for Chemists*: Mr. Zimmerman.

Two hours and one conference a week. Prerequisite: Mathematics 201.

FINAL EXAMINATION: The examination consists of three parts:

1. General Chemistry (required of all students).
2. Two examinations from the following group: a. Analytical and Inorganic Chemistry, b. Organic Chemistry, c. Physical Chemistry.
3. For one of the subjects in Group 2, an examination in an allied subject, covering at least two years of work, may be offered. In that case the student need take only one unit of advanced work.

HONORS WORK: Honors work may be taken by qualified students in conjunction with any of the advanced courses or after their completion.

Classical and Near Eastern Archaeology

ASSOCIATE PROFESSOR: MACHTELD JOHANNA MELLINK, PH.D.
Chairman

ASSISTANT PROFESSOR: BRUNILDE SISMONDO RIDGWAY, PH.D.

LECTURER: R. MARTIN HARRISON, B.A.

ELLA RIEGEL

MUSEUM ASSISTANT: ANN HARNWELL ASHMEAD, PH.D.

PROFESSOR OF

ANTHROPOLOGY: FREDERICA DE LAGUNA, PH.D.

The major courses provide an extensive survey of the ancient Mediterranean civilizations, with emphasis on the Greek arts of sculpture, architecture and vase-painting.

Lectures are illustrated by lantern slides; and for most courses photographs are available for study and review. A term paper or report is normally required.

REQUIREMENTS IN THE MAJOR SUBJECT: Classical Archaeology 101, 201, 203 and 301.

ALLIED SUBJECTS: Ancient History, Anthropology, Greek, History of Art, Latin.

101. *An Introduction to Ancient Art*: Mrs. Ridgway, Mr. Harrison.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage and tracing its importance first to Aegean

art and then to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world are studied down to the end of the Roman Empire in the West, ca. A.D. 476.

A fourth hour weekly is devoted to informal discussion.

201a. *Egyptian and Mesopotamian Archaeology*: Miss Mellink.

An introduction to the cultures of the ancient Near East, stressing their origins and the rise of local traditions.

201b. *Aegean Archaeology*: Miss Mellink.

The pre-Greek cultures of the Aegean area; Minoan Crete and its relations; the encounter of pre-Greeks and Hellenes; the first consolidation and expansion of Greek culture in the Mycenaean age.

[202a. *Ancient Greek Cities and Sanctuaries*.]

A course considering in a comprehensive way the ancient form and general cultural importance of such sites as Athens, Delphi and Olympia, with emphasis on history, religion and mythology connected with each center.

[202b.* *Cultural History of Archaeology*: Miss Mellink.]

The development of archaeology through the ages: antiquarian interests, early excavations and travels, the position and future of archaeology as a modern discipline.

203a. *Greek Sculpture*: Mrs. Ridgway.

The development of Greek sculpture from its beginnings to Roman times. The term paper deals with some piece of sculpture selected by the student.

203b. *Later Greek and Roman Sculpture*: Mr. Harrison.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. The term paper deals with individual monuments or groups of sculpture selected by the student.

[204. *American Archaeology*: Miss de Laguna (See Anthropology 204).]

301a. *Ancient Architecture*: Mr. Harrison.

The ancient architectural tradition in its historical context, with special study of the Greek temple as its dominant achievement.

301b. *Ancient Painting*: Mrs. Ridgway.

The development of Greek vase-painting as an original form of art, its relations to monumental painting, and its place in Greek archaeological research.

[302a. *The Greek Style in Art*: Miss Mellink.]

An analysis of the originality and consistency of style in the various fields of Greek art. The course will be conducted as a discussion group with reports and a term paper. Prerequisites: Classical and Near Eastern Archaeology 101, 201, 203, 301.

303. *Anatolian and Syrian Archaeology*: Miss Mellink.

A comprehensive course on Near Eastern archaeology with special emphasis on the peripheral and intermediate areas and their connections with the Aegean. Prerequisites: Archaeology 101, 201, 203, 301. The course is meant for seniors and is taught in the form of a seminar with papers and reports.

FINAL EXAMINATION: Three examinations on any three of the fields covered by the undergraduate lecture courses, but with questions of broader scope involving more extensive knowledge. During their senior year majors attend weekly one-hour conferences in each of their selected fields. If a student wishes, she may write one of the three examinations in an allied field.

HONORS WORKS A long written paper is submitted on a topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whom the paper is prepared.

Economics

PROFESSORS:	MILDRED BENEDICT NORTHROP, PH.D. <i>Chairman</i>
	JOSHUA C. HUBBARD, PH.D.
ASSOCIATE PROFESSOR:	MORTON S. BARATZ, PH.D.

This major is designed (1) to provide the student with an understanding of the institutions and processes of the economic

world in which we live, (2) to train her in the methods by which these institutions and processes may be analyzed, and (3) to enable her to evaluate the role played by economic forces in the political and social issues of the day.

REQUIREMENTS IN THE MAJOR SUBJECT: Economics 101, two units elected from 201, 202 and 203, and a full unit of advanced work. Students are urged to take Mathematics 203 which will count as part of their allied work.

ALLIED SUBJECTS: Political Science, History, Philosophy, Psychology, Mathematics, Sociology and Anthropology, Modern Languages.

101. *Introduction to Economics*: Miss Northrop, Mr. Hubbard, Mr. Baratz.

This course analyzes the major problems involved in the allocation of resources, the distribution of income, the maintenance of economic stability, the provision of social security and international economic relationships.

201a. *Industrial Structure and Market Behavior*: Mr. Baratz.

Theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive economy; legal restrictions on business policy; social and political implications of public regulation of private enterprises.

201b. *International Economics*: Miss Northrop.

A study of international trade and international finance in theory and practice; the foreign economic policy of the United States; international economic organization; the impact of industrialism on underdeveloped nations.

202a. *Money and Banking*: Mr. Hubbard.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy.

202b. *Public Finance and Fiscal Policy*: Mr. Baratz.

A study of local, State and Federal revenues and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full employment economy.

[203a.* *The Labor Movement.*]

Economic and political causes of the development of the labor movement in the United States and Europe; the role of government in a competitive economy.

[203b.* *Employer-Labor Relations.*]

The nature of the collective bargaining contract; wage determination in theory and practice; causes of labor disputes and methods of settlement.

41a. (Haverford College) *Labor Economics and Labor Relations*: Mr. Teaf.

[301a. *History of Economic Thought*: Miss Northrop.]

An analysis of economic thought in the 18th and 19th centuries as it developed against the background of social and political change. Readings, among others, in the works of Smith, Malthus, Ricardo, Mill, Marx, Jevons and Marshall.

301b. *Contemporary Economic Thought*: Mr. Hubbard.

An analysis of economic thought in the 20th century. The national income, economic growth, fluctuations in economic activity, the determinants in the level of income and employment.

302a. *Comparative Economic Systems*: Miss Northrop.

A study of the major forms of economic organization with particular emphasis on those existing today.

FINAL EXAMINATION: The final examination for students majoring in Economics is in three parts:

1. An examination in general economic principles and problems.
2. An examination in Economic Theory.
3. An examination in one of the following:
 - a. Money and Banking, including Fiscal Policy
 - b. Industrial Structure and Market Behavior
 - c. International Economics
 - d. The Business Cycle and Full Employment
 - e. Labor Economics including Wages and Wage Theory

With the permission of the major and allied departments, one examination may deal with an allied subject.

HONORS WORK: One unit of Honors work may be taken by students recommended by the Department.

Education

PRESIDENT

OF THE COLLEGE:

KATHARINE ELIZABETH MCBRIDE,
PH.D., LL.D., L.H.D., SC.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D.,
Chairman

LECTURER AND DIRECTOR,

THORNE SCHOOL:

SUSAN E. MAXFIELD, M.S.

LECTURER:

ETHEL W. MAW, PH.D.

INSTRUCTOR:

LOUISE M. DYCKMAN, PH.D.

ASSISTANT:

LELIA BRODERSEN, M.A.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Although there is no major in Education, a sequence of courses in the Department enables the student to prepare for teaching. Students expecting to teach are urged to confer with the Department during the Freshman year. Work leading to the certificate to teach in the secondary school in most states can be taken concurrently with a liberal arts major if the student very early maps out her course of study. The suggested sequence includes, in the order named, General Psychology, Principles of Teaching, Educational Psychology, Child Psychology or History and Philosophy of Education, and Principles of Teaching in the Secondary School. The last named course includes twelve hours per week of supervised practice teaching for one semester in the nearby schools of the Lower Merion Township.

The certificate to teach in the elementary school requires some substitutions in the list above plus additional requirements which differ from state to state. The basic work offered by this Department must be supplemented by courses taken elsewhere.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children as part

of the course work. The pre-school program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a clinic supported jointly by the College and the Lower Merion Township Schools for work in Child Development. Problems of learning and behavior are studied; psychological testing and remedial teaching are carried on. A program of counseling for children and their parents renders help in school and family adjustment. Advanced students participate in the work, and undergraduate and graduate students observe in the schools.

Referrals also come to the Institute from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and from social agencies, giving the students the opportunity for acquaintance with a diversity of clinical material. Rooms are equipped for the individual examination of pupils, remedial teaching, play therapy and student observation. Sound recording facilities are available for the study and improvement of counseling and testing techniques.

101b. *Principles of Teaching*: Miss McBride.

[102b. *History of Education*: Mrs. Maw.]

201a. *Educational Psychology*: Mrs. Cox.

Principles of Psychology applied to teaching and learning. Problems of motivation, evaluation and adjustment. Group process and learning. Two hours laboratory per week.

[202a. *Child Psychology*: Mrs. Cox.]

The development of the child from infancy to maturity. Physical, intellectual and emotional growth and learning in the family and the school. Two hours laboratory per week in the Thorne School. Prerequisite: Psychology 101.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

The objectives, curriculum and organization of the secondary school. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours practice-teaching in the junior or senior high school.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

The objectives and curriculum of the elementary school. The nature of the learner and the learning process during the early school years. Two-hour seminar per week; 12 hours practice-teaching in the elementary school.

English

PROFESSORS:	K. LAURENCE STAPLETON, A.B., <i>Chairman</i> STEPHEN JOSEPH HERBEN, B.LITT., PH.D. ARTHUR COLBY SPRAGUE, PH.D. MARY KATHARINE WOODWORTH, PH.D. BETTINA LINN, M.A.
ASSOCIATE PROFESSORS:	WARNER B. BERTHOFF, PH.D. ISABEL GAMBLE MACCAFFREY, PH.D. ¹
ASSISTANT PROFESSORS:	ROBERT HAWES BUTMAN, M.A. ROBERT B. BURLIN, PH.D. JAMES A. BRODERICK, PH.D.
INSTRUCTORS:	ANN EVANS BERTHOFF, M.A. SANDRA M. BERWIND, M.A. C. WILLIAM LA SALLE, M.A. RAMONA T. LIVINGSTON, A.B. CATHERINE RODGERS, B.A. DORIS QUINN, M.A.

To the student planning to major in English the Department offers courses covering all periods of English literature. The student selects her fields within this broad range and devotes special attention to one period or literary genre.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in English must take English 101 unless they have the recommendation of the Department to enter a second-year course. They must complete four second-year and advanced courses in English literature, of which at least one should be an advanced course. Students who wish to specialize in the field of Old and Middle English must take some courses in later periods, and those specializing in modern literature must take English 201 or, in exceptional cases, certain other courses approved by the Department. Credit will not be given for a single semester's work in full-year courses unless the Dean of the College recommends, and the Department approves, that an exception be made.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, History of Religion, Music, Philosophy and certain

1. On sabbatical leave for the year 1961-62.

courses in Classical Archaeology. Students are advised to devote one unit of allied work to a course in Greek or Latin or Greek Literature in Translation. Any second-year or advanced writing course may be substituted for one unit of allied work.

WRITING, LANGUAGE, AND SPEECH

15. *English Composition and Reading*: Miss Linn, Mr. Berthoff, Mr. Burlin, Mr. Broderick, Mrs. Livingston, Miss Rodgers, Mrs. Berwind, Mr. La Salle, Mrs. Quinn.

Practice in writing based upon the study of selected authors, with emphasis upon ideas and the problems of the writer in his time. The student will read fiction, poetry, and critical and argumentative prose in one of the following fields: (a) Literature of the twentieth century; (b) American Literature, 1840 to the present; (c) English Literature of the Renaissance. There will be weekly papers and discussions, and regular conferences with each student.

In 209, 215a and 306 weekly papers are usually required. Students who cannot meet this requirement should not elect any of these courses.

- 209.* *Experimental Writing*: Mrs. Berthoff.

Practice in various forms of writing, fiction and non-fiction. Attention is paid to the needs and interests of each student. Prerequisite: English 15 at Bryn Mawr or the written permission of the instructor.

- 210a.* *Playwriting and Production*: Mr. Butman.

Writing of two original one-act plays.

- 210b.* *Advanced Playwriting and Production*: Mr. Butman.

Writing of a full-length play and preparation of its production-book. Prerequisite: approval of the instructor.

- [211.* *Verse Composition*: Miss Stapleton.]

Original verse composition, with a study of the principles of form.

- 213b.* *History of the English Language*: Mr. Herben.

[215a.* *Prose Writing*: Miss Linn.]

Practice in various forms, excluding fiction and with emphasis on exposition and description. Prerequisite: English 15 at Bryn Mawr or the written permission of the instructor.

306* and 306c.* *Advanced Writing*: Miss Linn.

Practice in various forms of writing with the emphasis on technical problems. Prerequisite: English 209.

LITERATURE

101. *Introduction to English Literature*: Mr. Burlin, Miss Rodgers.

A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.

201. *English Literature of the Middle Ages*: Mr. Herben.

The emphasis is upon Chaucer and his contemporaries. Sufficient instruction is given in Middle English to enable the student to read ordinary texts.

202. *Shakespeare*: Mr. Sprague.

In the first semester all the plays are read, and in the second semester two or three are studied in detail.

203. *The Romantic Period*: Mr. Broderick.

English Literature from 1789 to 1832. Attention is centered upon the poets.

[204. *The Victorian Period*: Mr. Broderick.]

Attention is centered upon the poets.

205. *Representative English Novelists*: Miss Linn.

A study of the development of English fiction, and of the novel as a literary form, through the works of selected novelists in the eighteenth and nineteenth centuries. Prerequisite: the reading of two novels by each of the following: Charlotte Brontë, Dickens, Thackeray, George Eliot, Meredith.

206a. *English Drama from the Restoration to Robertson*: Mr. Sprague.

[206b. *Modern English Drama*: Mr. Sprague.]

The drama from 1865 to the present day.

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

The modern movement, its experiments and tendencies, with concentrated study of major writers, Yeats, Joyce, Eliot and others.

208. *American Literature*: Mr. Berthoff.

From the beginnings to the present day.

- 212b. *Blake*: Miss Woodworth.

A study of the poetry, prose, paintings and engravings of Blake, with emphasis on intellectual history and the development of art in the period.

- [213a. *Mediaeval Narrative*: Mr. Herben.]

Vernacular narrative literature of the West, from epic to romance. Works not in English will be read in translation.

- 214a.* *English Prose of the Sixteenth Century*: Miss Rodgers.

The main intellectual currents of the period are studied, with reading in the major prose writers.

300. *Studies in Middle English Literature*: Mr. Burlin.

A close examination of Middle English texts exclusive of Chaucer. There will be frequent individual reports and, in the spring term, special projects. Permission of the instructor is required.

- [301a. *Old English Literature*: Mr. Herben.]

After some training in Old English grammar, selections from prose and poetry are read.

- [302a. *The Drama from the Beginnings to 1642*: Mr. Sprague.]

A rapid survey of earlier periods is followed by closer study of Elizabethan and Jacobean drama, excluding Shakespeare.

- [303b. *English Poetry from Spenser to Donne*: Mr. Sprague.]

The principal poets studied are Spenser, Sidney, Shakespeare (the narrative poems and the sonnets), and Donne.

304. *The Seventeenth Century*: Miss Stapleton.

Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About a third of the time is devoted to Milton, and special attention is given to the thought of the period.

[305. *The Eighteenth Century*: Miss Woodworth.]

The age of Pope and Swift; the rise of the novel; Dr. Johnson and his circle.

FINAL EXAMINATION: The final examination is in three parts:

1. Literary criticism, literary genres, and problems of style. Based upon the reading of certain critical works of fundamental importance. Each student is expected to draw illustrative material from the fields in which she has elected to work.
2. An examination in one of the following periods. The student must choose a period other than that which embraces her special field.
 - a. The Middle Ages (to 1500)
 - b. The Renaissance (1500-1660)
 - c. Neo-Classicism and Romanticism (1660-1832)
 - d. The Nineteenth and Twentieth Centuries (English or English and American)
3. An examination in one of the following fields of concentration: Old English; Middle English; The Drama to 1642; Elizabethan Literature, non-dramatic; The Seventeenth Century; The Eighteenth Century; Romanticism; Victorian Literature; The Novel; The Drama from 1660 to the Present Time; English and American Literature, 1890-1939; American Literature.

With the consent of the Department an examination in an allied subject may be substituted for the examination in the special field.

HONORS WORK: In the senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability.

French

ASSOCIATE PROFESSORS:	MARIO MAURIN, PH.D., <i>Chairman</i> MICHEL GUGGENHEIM, PH.D.
VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
LECTURERS:	M. PAULINE JONES, M.A. JEAN-PAUL WEBER, <i>D. ès L.</i>
INSTRUCTOR:	BERNARD TOSCANI, PH.D.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Two second-year courses treat French literature from the beginning to the present day. In the advanced courses a more detailed study of certain authors, genres and movements is made. One second-year course is devoted to increasing the students' competence in spoken and written French. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In French 1, 2, and 203c, the use of the Laboratory forms an integral part of the course. This work should be supplemented by spending the Junior year in France or attending a course of summer study in France or French-speaking surroundings. If unable to do so, students are strongly urged to live at the French house for at least one year.

REQUIREMENTS IN THE MAJOR SUBJECT: French 101, 201, 202 and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, be admitted to French 201, and substitute an advanced course for French 101.

ALLIED SUBJECTS: Any other language or literature, European History, History of Art, Music, Philosophy.

1. *Elementary French*: Miss Jones, Mr. Toscani.

The speaking and understanding of French are emphasized, particularly during the first semester. The course, which meets five times a week, is the equivalent of two years of school French.

2. *Intermediate French*: Members of the Department.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

101. *Readings in French Literature with Practical Exercises in the French Language*: Members of the Department.

The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

201. *French Literature from the Chanson de Roland to 1800*: Mr. Guggenheim, Mr. Weber.

202. *French Literature from 1800 to 1950*: Mr. Weber, Mr. Maurin.

- 203c. *Advanced Training in the French Language*: Mr. Guggenheim, Miss Jones.

301. *French Lyric Poetry*: Mr. Maurin, Mr. Weber.

In the first semester special attention is given to the poetry of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.

- [302. *French Drama*: Mr. Maurin, Mr. Guggenheim.]

Special study is made of the drama of the seventeenth and twentieth centuries.

- [303. *The French Novel from 1700 to 1950*: Mr. Maurin, Mr. Guggenheim.]

304. *French Essayists and Moralists*: Mr. Weber, Mr. Maurin.

Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus and Sartre.

JUNIOR YEAR ABROAD: Students majoring in French may, by a joint recommendation of the Dean of the College and the Department of French, be allowed to spend their Junior year in Paris under one of the junior year plans, organized by Sweet Briar College or Smith College.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination to test the student's command of the French language.
2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: On the recommendation of the Department, students in their Senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.

Geology

PROFESSORS:	EDWARD H. WATSON, PH.D., <i>Chairman</i> LINCOLN DRYDEN, PH.D. DOROTHY WYCKOFF, PH.D.
INSTRUCTOR:	FREDERIC G. LAYMAN, M.S.
ASSISTANT:	BEVERLY ANN MARSTERS, A.B.

The Department seeks to make students more aware of the physical, natural world around them; to teach them how the present landscapes have been formed, and how modern plants and animals have evolved from earlier kinds. Physical processes like erosion, volcanic activity, and earthquakes form one large part of the subject; the history of the earth and the organisms which have peopled it form another. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies beyond the classroom, in field work.

REQUIREMENTS IN THE MAJOR SUBJECT: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses is normally required: Biology, Chemistry, or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department.

ALLIED SUBJECTS: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. *Physical Geology*: Mr. Watson, Miss Wyckoff, Mr. Layman, Miss Marsters.

A study of the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes, and of the structures to which they give rise. Three lectures, four hours of laboratory or field work a week.

101b. *Historical Geology*: Mr. Dryden, Miss Wyckoff, Mr. Layman, Miss Marsters.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, one afternoon of laboratory or field work a week. A three-day field trip is taken in the spring.

201. *Mineralogy*: Mr. Watson.

Crystallography, elementary crystal optics, descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours of laboratory work a week.

[202. *Paleontology*: Mr. Dryden.]

A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution.

[301. *Structural and Field Geology*: Mr. Watson.]

The origin and analysis of the structures of igneous, sedimentary and metamorphic rocks, and geological surveying. Three lectures, six hours of laboratory or field work a week.

302. *Stratigraphy*: Mr. Dryden.

The origin and formation of sedimentary rocks; geologic history of typical regions of the United States; elements of petroleum geology; and study of the Ice Age.

303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Miss Wyckoff, Mr. Watson, Mr. Layman.

The optical properties of minerals and the use of the petrographic microscope. Discussion of the origin and differentiation of igneous rocks. Two lectures, about twelve hours of laboratory a week. Credit: 1½ units.

[305. *Geography*: Miss Wyckoff.]

Discussion of geographic factors such as climate, soils, vegetation, land forms and mineral resources. General principles of economic and political geography. Three lectures, one afternoon of laboratory a week.

306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the faculty.

(See Interdepartmental Course 203, page 115.)

FINAL EXAMINATION: This is in three parts:

1. An examination in General Geology.
2. An examination in some special field in Geology.
3. One of the following:
 - a. An additional special examination in Geology
 - b. A general examination in an allied field
 - c. A written report on a piece of individual work

HONORS WORK: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

Certain graduate courses are open to properly trained undergraduates.

German

ASSOCIATE PROFESSOR:	CHRISTOPH E. SCHWEITZER, PH.D., <i>Chairman</i>
ASSISTANT PROFESSORS:	MARTHA M. DIEZ, M.A. HUGO SCHMIDT, PH.D.
LECTURER:	ERIKA SCHMIEDBAUER, PH.D.
INSTRUCTOR:	KATRIN TAEGER, M.A.

The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 1 are therefore given in German and progressive linguistic training is provided. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In German 1 and 102a the use of the Laboratory forms an integral part of the course. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in the Middlebury Summer School or in one of the summer schools of Germany, Austria or Switzerland; and/or by spending the Junior year in Munich or Freiburg with the Wayne University Group.

REQUIREMENTS IN THE MAJOR SUBJECT: The normal course sequence for the major is German 101, 102a, 202, and at least one advanced course. Special consideration will be given to students who have supplemented their linguistic training as outlined.

ALLIED SUBJECTS: Any language or literature, History, Political Science, Philosophy, Music, History of Art.

1. *Elementary German* (Speaking and Reading): Members of the Department.

The course, meeting five times a week, offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

101. *Readings in German Literature*: Mr. Schmidt.

Introduction to the main periods of German literature. Interpretation of texts from the early period to the present.

- 102a. *German Conversation and Composition*: Miss Taeger.

Active use of the language in speaking and writing; discussion of topics; compositions; reports.

202. *The Age of Goethe*: Mr. Schweitzer.

German literary movements in the period 1750-1830, with emphasis on the works of Lessing, Goethe, Schiller, and the Romantics.

- [301. *Introduction to Germanic Philology*: Miss Schmiedbauer.]

Brief introduction to the linguistic method. History of the language situation in the German-speaking world from the earliest records until the present day.

302. *German Language and Literature of the Middle Ages*: Miss Schmiedbauer.

Introduction to the history of the German language; reading of representative works such as the *Nibelungenlied* and *Minnesang*.

- [303. *The Classics of the Nineteenth Century*: Mr. Schmidt.]

A survey of German literary developments from the death of Goethe to Nietzsche and Hauptmann, with special emphasis on the great dramatists and lyric poets.

304. *Modern German Literature*: Mr. Schmidt.

Reading and discussion of works from dramatists (Hauptmann, Brecht, Zuckmayer), novelists (Mann, Hesse, Kafka) and lyric poets (George, Hofmannsthal, Rilke).

- [305. *The German "Novelle"*: Mr. Schweitzer.]

After a brief survey of earlier phases of this form, the course deals with its development from Goethe to Kafka and Thomas Mann.

- [306. *The German Drama*: Mr. Schmidt.]

The development of German drama from the mediaeval mystery play to the epic theatre of Bertolt Brecht.

- [307. *German Poetry*: Mr. Schmidt.]

Interpretation of German poetry from the Reformation to the present. Various methods of critical analysis will be used.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination on selected masterpieces of German literature.
2. An examination on the history of a literary form, or on the history of the German language, or on an allied subject.
3. An examination on a period of German literature, or on an allied subject, if none has been offered under 2.

HONORS WORK: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences, and a long paper.

Greek

PROFESSORS: RICHMOND LATTIMORE, PH.D., LITT.D.
MABEL LOUISE LANG, PH.D., *Chairman*

LECTURER: ROSAMOND KENT SPRAGUE, PH.D.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of epic and tragic poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

REQUIREMENTS IN THE MAJOR SUBJECT: Greek 1, 101, 201, and 301.

ALLIED SUBJECTS: Ancient History, Classical Archaeology, any language, Philosophy.

1. *Elementary Greek*: Miss Lang.

Elements of grammar with prose composition and selected reading from ancient authors and the *New Testament* in the first semester; in the second semester, the *Apology* of Plato.

101. *Herodotus and Tragedy*: Miss Lang, Mr. Lattimore.

Private reading and prose composition are required.

- 102c. *Homer*: Mrs. Sprague.

201. *Plato and Tragedy*: Mrs. Sprague.

Private reading and prose composition are required.

301. *Thucydides and Comedy*: Mr. Lattimore.

[302. *Early Greek Literature: History and Criticism*: Mr. Lattimore.]

The student selects her work from this field in consultation with the Department.

203.* *Greek Literature in Translation*: Miss Lang, Mr. Lattimore.

The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.

FINAL EXAMINATION: The final examination for students majoring in Greek consists of:

1. Sight Translation of Greek to English.
2. Two examinations from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-Century Historians, Fourth-Century Attic Prose. A student may substitute for one of these, an examination in one of the Allied Subjects.

HONORS WORK: Honors may be taken either in conjunction with advanced courses or after their completion.

History

PROFESSORS: CAROLINE ROBBINS, PH.D., *Chairman*
FELIX GILBERT, PH.D.

ASSOCIATE PROFESSORS: ARTHUR P. DUDDEN, PH.D.
DAVID J. HERLIHY, PH.D.¹

VISITING LECTURER
IN HISTORY AND

MEDIAEVAL LATIN: JAMES J. JOHN, D.S.M.

LECTURER: ALAN SILVERA, M.A.

INSTRUCTORS: AVERY D. ANDREWS, II, M.A.
JANE SCHWARTZ BENJAMIN, PH.D.

PROFESSOR OF LATIN: THOMAS ROBERT SHANNON BROUGHTON,
PH.D.

INSTRUCTOR IN LATIN: LYDIA HALLE LENAGHAN, PH.D.

The chief aim of the History major is to give the student a sense of historical perspective and an insight into historical

1. On sabbatical leave for the year 1961-62.

method. The development of ideas and institutions—political, social and economic—is stressed rather than the accumulation of data about particular events. At the same time a more intensive study of certain topics and periods is required of every student in order to train her in the use of documents and to enable her to evaluate different kinds of source material. Extensive reading is assigned in all courses to familiarize History majors with the best historical writing and, in every year course except History 101, critical or narrative essays are required.

REQUIREMENTS IN THE MAJOR SUBJECT: In general, students are expected to offer four units of History and two units of allied work, the selection of courses depending upon the student's desire to specialize in Modern, Mediaeval or Ancient History. Students concentrating in Modern History must take some work in Ancient or Mediaeval History. History 301 is required of all students offering Modern History for the Final Examination; History 305, for all students offering Mediaeval History, or an equivalent approved by the Department.

ALLIED WORK: Courses in Economics and Political Science are recommended for History majors. Advanced courses in Philosophy, History of Art, Literature, Anthropology and Sociology are accepted as allied work if the subject matter is related to that of the History courses elected. For students specializing in Mediaeval and Ancient History, Greek, Latin and Archaeology are especially recommended.

101. *Mediaeval and Modern Europe:* Members of the Department.

The purpose of this course is to give a broad view of the development of European civilization from the fall of Rome to the present day as a general background for courses in other departments as well as for more advanced history courses. Students who have had a general survey in school in their last two years should elect instead of 101: 201, 202, 203, 204, 207 or 208.

201. *History of England to 1783:* Mrs. Benjamin, Miss Robbins.

The treatment is topical, although a general chronology is maintained. Prehistoric, Roman, Saxon, Norman and later English society, constitutional, economic and intellectual development are among the subjects studied. Ireland, Scotland and

Wales receive special attention. This course is open to all students. Given in alternate years.

202. *History of the United States*: Mr. Dudden.

A survey of American civilization to the present day. The first semester covers colonial and national developments to the end of the Civil War period. The second semester describes the emergence of modern America.

[203. *Mediaeval Civilization*: Mr. Herlihy.]

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included. Given in alternate years.

204a. *Revolutionary Europe 1787-1850*: Mr. Silvera.

About one half of the semester is devoted to the French Revolution; the second half to the spread of revolutionary ideas and the idea of nationalism throughout Western Europe during the Napoleonic period and the first half of the Nineteenth Century culminating in the Revolution of 1848.

204b. *Europe and Its Expansion in the Nineteenth Century*: Mr. Silvera.

European, continental, and overseas development from the period of the Revolution of 1848 until the end of the Boer War in 1902. Stress will be placed on industrial developments, imperialism; on European activities in Africa, Asia and the Near East.

205.* *Ancient History*: Mrs. Lenaghan, Mr. Broughton.

The first semester is devoted to study of the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the hellenistic world to the reign of Constantine I. The course demands essays, and reading of typical sources for each period.

[206. *History of Russia*: Mr. Herlihy, Mr. Gilbert.]

A survey of Russian history until the Revolution of 1917. The first semester is devoted to Russian history until Peter the Great; special emphasis will be placed on the Byzantine back-

ground of Russian history. The second semester deals with Russia under Tsarism.

[207a. *The Rise of the Americas.*]

A comparative study of the colonial process and revolutionary movements in the Americas. Particular emphasis will be placed on developments in Latin America.

[208. *Social and Economic History of Mediaeval and Early Modern Europe:* Mr. Herlihy.]

Topics considered include European economic geography, agricultural settlements, demographic trends, rise of the manor and seigneurie, rise and development of towns, agricultural and industrial technology, commerce and commercial institutions, social structure and economic theories. Particular attention is paid to the period between the seignorial-urban revolution of the eleventh century and the industrial revolution of the eighteenth.

209. *East and West in the Early Middle Ages:* Mr. Andrews.

The course will be primarily concerned with the Mediterranean region from the third century to the eleventh, examining the religious controversy and its political consequences in the Late Empire, the formation of the Byzantine State and its relation to its neighbors, the rise of western trading towns and the Crusades.

301. *Europe in the Twentieth Century:* Mr. Gilbert.

The first semester reaches and includes the settlement after the first World War; the second, the events from 1919 to the present. The course deals not only with diplomatic events but special emphasis is placed on the internal developments in the European states and on their social structure.

303a. *The Expansion of the American Nation:* Mr. Dudden.

The period stressed ranges from the last quarter of the nineteenth century to the end of the first World War. Inquiry is directed to the fundamental problems posed for the United States by industrialism, large-scale immigration, populism, progressivism, and imperialism.

[304a. *English History in the Nineteenth Century*: Miss Robbins.]

Special attention is given to the structure of English government and its adaptation to modern economic and social conditions as well as to the growth of the second empire and its institutions. Given in alternate years.

305. *Renaissance and Reformation*: Mr. Gilbert.

The course is concerned with European History from the fourteenth to the sixteenth century. The first term deals with the Renaissance, the second with the Reformation. Emphasis will be placed not only on the political and social developments, but also on the intellectual history of the period. Given in alternate years.

306a. *The Enlightenment*: Miss Robbins.

The intellectual history of the seventeenth and eighteenth centuries is studied in seminar discussions of selected books illustrating, amongst other things, the scientific revolution, the growth of skepticism, the traveler and the movement of ideas, morality and taste, optimism, the philosophic critics and analysts of government, law and international relations. Open only to upperclassmen.

306b. *Great Historians*: Miss Robbins.

Each week the work of one or two historians is read and discussed in relation to the historical and scholarly presuppositions of its age. Emphasis is laid on reading and analysis rather than on any attempted survey of historical literature. The course, however, pursues a roughly chronological order starting with the Greeks and ending with Spengler and Toynbee.

[307a. *The American People in the Recent Past*: Mr. Dudden.]

The United States in our time, emphasizing historic political, social, economic, and intellectual developments since the first World War.

FINAL EXAMINATION: The final examination for students in History consists of three parts, two of which must deal with general European history. Unless special permission is given by the Department these two fields should form a sequence in mediæval or in modern history. The fields offered are as follows:

1. Ancient History to A.D. 378 (Special field)
2. History of Europe 378 to 1300
3. History of Europe 1300 to 1648
4. History of Europe 1648 to 1830
5. History of Europe 1830 to 1950
6. History of England (Special field)
7. History of the United States (Special field)
8. History of Russia (Special field)

The examinations in Ancient, English, Russian and American history will be based on concentrated study of a special field selected by the Department to meet the needs of the senior class. With the consent of the departments concerned a student may write her third examination in a field of allied work.

HONORS WORK: Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1. The award of the degree with Honors in History will depend on the character of this honors paper and on the candidate's performance in the final examination.

History of Art

PROFESSORS:	ALEXANDER COBURN SOPER, M.F.A., Ph.D. ¹ CHARLES MITCHELL, M.A., B.LITT.
ASSOCIATE PROFESSORS:	JAMES W. FOWLE, Ph.D., <i>Chairman</i> WILLIAM C. LOERKE, M.F.A., Ph.D.
VISITING LECTURER:	ELIZABETH M. MONGAN, A.B.
INSTRUCTOR:	GERALD M. ACKERMAN, M.F.A.
ARTIST IN RESIDENCE:	FRITZ JANSCHKA

The history of art is studied as an historical discipline. The Department normally offers an introductory course and a series of special courses. Workshop supervision is also offered by the Artist in Residence, for which there is no tuition fee and academic credit is not granted.

REQUIREMENTS FOR THE UNDERGRADUATE MAJOR: A minimum of four full-year courses (or the equivalent) is required, consisting of the introductory course and three others. A 200 course may

1. On partial leave of absence for the year 1961-62.

be modified to count as advanced at the discretion of the Department. It is advisable for anyone contemplating a major in the history of art to consult the Department as early as possible in her college career.

ALLIED SUBJECTS: History, Latin, Greek, Modern Languages, Archaeology; others in consultation with the Department.

101. *Introduction to Art History*: Mr. Loerke, Mr. Mitchell.

The course is designed as an introduction to the methods and scope of art history in the field of Western art from mediaeval to modern times. Studio work, two hours weekly, with Mr. Janschka is also required.

201. *Mediaeval Art*: Mr. Loerke.

Selected topics and works from the fourth to the fourteenth century.

202. *Renaissance Art*: Mr. Mitchell.

European Renaissance art from the fourteenth to the sixteenth century.

203. *Baroque Art*: Mr. Ackerman.

European art from the late sixteenth to the early eighteenth century.

204. *Modern Art*: Mr. Fowle.

European art from the late eighteenth to the early twentieth century with emphasis on French painting.

212b. *Renaissance and Baroque Architecture*: Mr. Ackerman.

The architecture of the Renaissance, Mannerism, and the Baroque will be studied in European rather than national terms. Contemporary books on architectural theory will be the subject of special problems and investigations.

300a. *Texts for Art-Historians*: Mr. Mitchell.

A course designed to give advanced students of art-history instruction and practice in the reading and interpretation of written documents bearing on the history of art. Participants need some elementary knowledge of Latin and a working knowledge of two at least of the following languages: French, Italian, German.

305. *The Art of the Far East*: Mr. Soper.

The arts of China, Buddhist India, and Japan.

311b. *Mediaeval Problems*: Mr. Loerke.

A course for advanced students of Mediaeval art, history or literature. The course this year will take up a series of problems centering on Early Mediaeval Book Illumination. A reading knowledge of three of the following four languages will be normally required: Latin, German, French, Italian.

324a. *Twentieth Century Painting and Sculpture*: Mr. Fowle.

A course for advanced students of Modern art, history, or literature. It will be concerned with a number of individual artists and artistic movements. A reading knowledge of French will be required; German and Italian will be useful to members of the course.

FINAL EXAMINATION: The final examination for students majoring in the History of Art consists of three parts of three hours each:

1. An examination to test knowledge of works of art.
2. A general examination on the history of art.
3. An examination on a special field or topic.

HONORS WORK: Honors work is offered to students recommended by the Department.

History of Religion

PROFESSOR OF LATIN:

AGNES KIRSOPP MICHELS, PH.D.

VISITING LECTURER IN PHILOS-

OPHY AND RELIGION:

JEAN A. POTTER, PH.D.

Courses in the History of Religion may be taken as electives or in connection with certain major fields as allied work. Philosophy of Religion may be taken in the Department of Philosophy as one of the fields for the Final Examination.

No major is offered in the History of Religion.

103. *Literary History of the Bible*: Mrs. Michels.

The history of the Bible, with special emphasis on analysis of text and on literary forms.

[201a. *Judaism and Early Christianity*.][201b. *Comparative Religion*.]204. *Philosophy of Religion*: Miss Potter.

The existence and nature of God and the character of religious language.

Italian

PROFESSOR: ANGELINE HELEN LOGRASSO, PH.D., *Chairman*
 INSTRUCTOR: BERNARD TOSCANI, PH.D.

The aims of the major are to acquire a knowledge of the Italian language and literature and to acquire an understanding of Italian culture and its contribution to Western civilization. Majors in Italian are urged to spend the Junior Year in Italy or to study in approved summer schools in Italy or in the United States.

REQUIREMENTS IN THE MAJOR SUBJECT: Italian 1, 201, 202, and two other advanced courses.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests. Collateral work in the Language Laboratory is required for Italian 1 and 101. In all courses students are urged to use tapes available in the Language Laboratory.

1. *Italian Language*: Miss Lograsso.

A practical knowledge of the language is acquired through hearing, speaking, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of Italian literature. The course meets five times a week.

101. *Intermediate Course in the Italian Language*: Mr. Toscani.

Readings from modern Italian authors and topics assigned for composition and discussion, conducted entirely in Italian.

102c.* *Dante in English Translation*: Miss Lograsso.

The New Life and Divine Comedy.

[103c.* *Literature of the Italian Renaissance in English Translation*: Miss Lograsso.]

From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance, with special reference to their influence on other literatures.

201. *Classics in Italian Literature*: Miss Lograsso.

Reading and explanation of texts, with a study of literary history; conducted mostly in Italian.

202. *Dante*: Miss Lograsso.

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works. With departmental approval, open to anyone who can read Italian.

[302c. *Advanced Course in the Italian Language*: Miss Lograsso.]

Advanced work in composition.

[303. *Italian Literature of the Rinascimento*: Miss Lograsso.]

[304. *Italian Literature of the Romantic Period*: Miss Lograsso.]

JUNIOR YEAR ABROAD: Students approved by the Department and the Dean may be recommended for the Junior year in Perugia and Florence under the auspices of the Smith College Group.

FINAL EXAMINATION: The final examination consists of three parts:

1. The Italian Language: ability to understand and speak the spoken idiom; ability to write it.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or an examination on an allied subject.

For the second part, the emphasis may be placed on the Mediaeval, Renaissance, Romantic or Modern period.

HONORS WORK: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

PROFESSORS:	THOMAS ROBERT SHANNON BROUGHTON, PH.D., <i>Chairman</i> BERTHE MARIE MARTI, PH.D. ¹ AGNES KIRSOP MICHELS, PH.D.
VISITING LECTURER IN HISTORY AND MEDIAEVAL LATIN:	JAMES J. JOHN, D.S.M.
INSTRUCTORS:	LYDIA HALLE LENAGHAN, PH.D. GABRIELLE S. HOENIGSWALD, M.A.

The major in Latin is planned to give the students familiarity, through careful reading in the original, with the most important works of Latin literature and an understanding of Roman civilization as revealed in literature. A further aim of the major is to give the students some sense of the importance of Roman literature in our tradition and of the contribution of Roman civilization to the modern world. Study of language and style is an essential part of the work, but only one course is entirely devoted to such study. Students are given an opportunity to choose whether they wish to work intensively on literary criticism or on problems dealing with Roman civilization.

REQUIREMENTS IN THE MAJOR SUBJECT: Latin 101, 201 and either 301 or 302. Honors students are required to take Latin 203. Students who plan to teach Latin are advised to take this course.

ALLIED SUBJECTS: History, Classical and Near Eastern Archaeology, Greek, History of Art, History of Religion, Philosophy, any modern literature.

1. *Elementary Latin*: Mrs. Michels, Mr. Broughton.

This course is planned to cover three units of entrance Latin. Students who have completed it satisfactorily may take Latin 101.

2. *Intermediate Latin*: Mrs. Hoenigswald.

The course includes a review of grammar and reading in prose and poetry equivalent to two years of entrance Latin. Prerequisite: two units of entrance Latin.

1. On sabbatical leave for the year 1961-62.

101. *Latin Literature*: Mr. Broughton, Mrs. Michels, Mrs. Lenaghan.

Students with four units of entrance Latin will be placed in a separate section. Selections will be read from the poems of Catullus, a play of Plautus, the *Eclogues* of Vergil and from Lucretius in the first semester; and from Livy's *History* and the *Odes* of Horace in the second. Prerequisite: at least three units of entrance Latin.

- 201a. *Plautus, Terence, and Horace*: Mrs. Michels.

Reading in the plays of Plautus and Terence during the first half of the semester and from the *Satires* and the *Epistles* of Horace during the second.

- 201b. *Latin Literature of the Silver Age*: Mr. Broughton.

Reading from the works of the chief authors with special attention to the development of literary types during the period.

- 202c.* *Mediaeval Latin Literature*: Mrs. Lenaghan.

The reading includes selections from the most important mediaeval writers from St. Augustine to Thomas Aquinas. Prerequisite: four units of entrance Latin or Latin 2, or Latin 101.

203. *Latin Style*: Mrs. Lenaghan.

A study of the style and technique of the main Roman authors and of the chief metres of Roman poetry with practice in the writing of Latin prose and verse. This course may be taken as one half-unit throughout the year by students wishing to omit the material on versification.

[301a. *Vergil's Aeneid*: Mrs. Michels.]

[301b. *Tacitus and Livy*: Mr. Broughton.]

302a. *Cicero and Caesar*: Mr. Broughton.

302b. *Lucretius*: Mrs. Lenaghan.

FINAL EXAMINATION: The final examination for students majoring in Latin consists of three three-hour examinations in the following fields:

1. Latin Sight Translation.
2. An examination on one of the following subjects:
 - a. Latin Literature of the Republic
 - b. Latin Literature of the Empire
 - c. Latin Literature of the Ciceronian and Augustan Age
 - d. Roman History from the Sources (100 B.C. to 70 A.D.)

3. An examination on one of the following subjects:
 - a. An allied subject (Students are advised if possible to take the third examination in Greek)
 - b. A second subject from Group 2 (Choice must avoid duplication of material)
 - c. The development in Latin literature of an important literary type
 - d. An important period or type in Mediaeval Latin Literature
 - e. Latin Prose Style

HONORS WORK: Honors work either in classical or in mediaeval Latin is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.

Mathematics

PROFESSORS:	JOHN C. OXTOPY, M.A., <i>Chairman</i> MARGUERITE LEHR, PH.D.
ASSOCIATE PROFESSOR:	FREDERIC CUNNINGHAM, JR., PH.D.
ASSISTANTS:	DEBORAH A. BOYD, A.B. DOROTHEA J. RHEA, M.A.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study. The courses in calculus are basic for all applications of mathematical analysis and for more advanced work in function theory. The courses in algebra and geometry introduce the student to some of the unifying ideas and postulational methods that are characteristic of much of modern mathematics.

REQUIREMENTS IN THE MAJOR SUBJECT: Mathematics 101, 201, 202C, 301, 303a, and at least one other advanced half course.

ALLIED SUBJECTS: Chemistry, Economics, Philosophy, Physics and Psychology.

101. *Calculus, with Analytic Geometry*: Mr. Oxtoby, Mr. Cunningham.

Differentiation and integration of algebraic and elementary transcendental functions, with the necessary elements of analytic geometry and trigonometry. The interplay between mathematical ideas and applications is exploited.

201. *Second-Year Calculus*: Mr. Oxtoby.

The definite and indefinite integral, infinite series, partial derivatives, multiple integrals, differential equations, with applications to geometry, physics, and chemistry.

- 202c. *Solid Analytic Geometry and Algebra*: Mr. Cunningham.

Determinants, vectors, matrices, and selected topics from the Theory of Equations; linear algebra motivated by and applied to space geometry; classification and transformation of planes and quadric surfaces.

301. *Advanced Calculus*: Mr. Cunningham.

The classical theory of real functions, based on Cantor's construction of the real number system; the Riemann integral, functions defined by power series, Fourier series, functions of several variables. Prerequisite: Mathematics 201.

- 302b. *Introduction to Geometric Theories*: Miss Lehr.

Analytic generalizations and group-theoretic classification, as related to postulational methods and the problem of introducing coordinates. Development motivated from the basic projective, Euclidean, and non-Euclidean space theories. Prerequisite: Mathematics 202c.

- 303a. *Introduction to Abstract Algebra*: Miss Lehr.

Permutations, linear transformations, abstract groups, rings, and fields; postulational characterization of number systems. Prerequisite: Mathematics 202c.

- [304a. *Theory of Probability and Statistics*.]

Mathematical formulation of problems of statistical inference, exhibiting the inherent probability aspect. Probability distributions for discrete and continuous ranges; sampling theory; central limit theorems; tests of hypotheses. Prerequisite: Mathematics 201.

- [305b. *Topics in Differential Geometry*: Miss Lehr.]

310. *Theory of Functions of a Complex Variable*: Mr. Oxtoby.

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

[311b. *Differential Equations*.]

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems.

203.* *Linear and Statistical Methods*: Miss Lehr.

A course designed to develop mathematical vocabulary and methods useful in the description and analysis of mass data, and for statistical inference from such data. Topics include linear systems and matrices, correlation and regression methods, simple programming problems, basic probability models, elements of sampling theory.

FINAL EXAMINATION: The final examination consists of three parts: (a) an examination in analysis, (b) an examination in algebra and geometry, and (c) an examination in some particular branch of advanced analysis or geometry, or in an allied field.

HONORS WORK: Qualified students are admitted to Honors work on recommendation of the Department.

Music

PROFESSOR AND DIRECTOR
OF CHORUS:

ROBERT L. GOODALE, A.B., B.Mus.,
A.A.G.O., *Chairman*

PROFESSOR AND DIRECTOR
OF ENSEMBLE GROUPS:

AGI JAMBOR, M.A.

VISITING PROFESSOR:

HORACE ALWYNE, F.R.M.C.M.

ASSISTANT PROFESSOR:

SYLVIA W. KENNEY, B.Mus., Ph.D.

ASSISTANT:

CAROLINE M. CUNNINGHAM, M.A.

DIRECTOR OF ORCHESTRA:

WILLIAM H. REESE, Ph.D.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and

sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment, and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to recordings assigned by the Department.

REQUIREMENTS IN THE MAJOR SUBJECT: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. A student intending to major in Music must have sufficient knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach figured chorale. She is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group.

ALLIED SUBJECTS: History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

101. *An Introduction to the History and Appreciation of Music:* Miss Kenney.

A general survey of music in western civilization, with emphasis on the evolution of polyphonic music from the tenth to the twentieth century.

102. *Music Materials:* Mr. Goodale.

A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis, and an introduction to orchestration.

201. *The Romantic Period:* Mr. Alwyne.

An intensive study of nineteenth-century music. The Symphonic Poem, Art-Song and Music-Drama. Expansion of orchestral and pianoforte technique; development of symphonic and chamber-music forms; growth of nationalism. Prerequisite: Music 101 or its equivalent.

202. *Advanced Theory and Analysis:* Mr. Goodale.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

203c. *Bach*: Mme Jambor.

Prerequisite: Music 101 or its equivalent.

204c. *The Classical Period*: Mme Jambor.

Prerequisite: Music 101 or its equivalent.

[301a. *Opera and Music Drama*: Miss Kenney.]

The evolution of opera from Gluck to Berg. Prerequisites: Music 101 and 102 or their equivalents.

[301b. *Music of the Twentieth Century*: Mr. Goodale.

The continuing stream of romanticism in modern adaptations. Neo-classicism and Expressionism. Experimental new phases in linear counterpoint, polyrhythms, polytonality and micro-tonality. Prerequisites: Music 101, 102, and 202 or their equivalents.

302a. *Mediaeval and Early Renaissance Music*: Miss Kenney.

The rise of liturgical music in the early Christian Church. The development of polyphony in the tenth century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101, 102 or their equivalents. Alternate with Music 301a.

302b. *Late Renaissance and Baroque Music*: Miss Kenney.

The great periods of vocal counterpoint during the fifteenth and sixteenth centuries. The creation of new forms in the seventeenth century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 or their equivalents. Alternate with Music 301b.

303a. *Orchestration*: Mr. Goodale.

Prerequisites: Music 101, 102, and 202 or their equivalents. Music 202 may be taken concurrently with this course.

303b. *Russian Music*: Mr. Alwyne.

The development of Russian music from the time of its emergence from foreign domination in the early nineteenth century to the period of the Second World War. Prerequisites: Music 101, 102 or their equivalents.

304c. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme Jambor.

Prerequisites: Music 101 and 102 or their equivalents.

305. *Free Composition*: Mr. Goodale.

This course is designed for those students whose chief interest lies in the field of composition. It may be taken only with the permission of the instructor.

HONORS WORK: Honors work is offered for students recommended by the Department.

FINAL EXAMINATION: The final examination consists of three parts with three-hour examinations in each:

1. The History of Music.
2. The Theory of Music.
3. Special field, which may be taken in an allied subject.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Chorus participates in concerts with choruses from men's colleges and also takes part in special College services. Major works for women's chorus and mixed chorus are studied and performed. The Double Octet, drawn from the Chorus on a competitive basis, frequently sings at concerts and occasionally goes on trips as an independent unit.

The Orchestra, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

The Ensemble Groups, also organized jointly with Haverford College. Students in these groups are afforded the opportunity of studying chamber-music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense, with no academic credit. Lessons in other instruments may be arranged locally or in Philadelphia. The Department will be glad to assist in these arrangements.

Philosophy

PROFESSORS:	MILTON CHARLES NAHM, B.LITT., PH.D., <i>Chairman</i> JOSÉ MARIA FERRATER MORA, <i>Lic. F.L.</i> ISABEL SCRIBNER STEARNS, PH.D.
ASSOCIATE PROFESSORS:	HUGUES LEBLANC, PH.D. GEORGE L. KLINE, PH.D.
INSTRUCTOR:	WILLIAM A. WISDOM, M.A.

VISITING LECTURER IN
PHILOSOPHY AND
RELIGION:

JEAN A. POTTER, PH.D.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in Western thought, as well as to provide training in the techniques proper to the subject.

The History of Philosophic Thought provides the major students with a common background, training and language. Further study offers not only historical information but insight into methodology and systematization, with training in the techniques of logic and theory of value. Metaphysics, aesthetics, and the other advanced studies, besides their intrinsic importance, show the relations of philosophy to art, science, history, mathematics and religion.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical, and productive speculation.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in Philosophy are required to take the first-year course, the second year half-courses in German Idealism, Logic, Ethics, and either Recent Metaphysics, Hegel, or Mediaeval Philosophy, and one advanced course. With permission, students may take second-year courses for third-year credit.

ALLIED SUBJECTS: Biology, Chemistry, Economics, English, Greek, French, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, and certain courses in History of Religion and Sociology and Anthropology.

101. *History of Philosophic Thought*: Mr. Nahm, Miss Stearns, Mr. Ferrater Mora, Mr. Leblanc, Mr. Kline, Mr. Wisdom.

Some writings of the major philosophers, classic and modern, are studied and discussed.

- 201a. *German Idealism*: Mr. Ferrater Mora.

The philosophy of Kant.

- 201b. *Recent Metaphysics*: Miss Stearns.

The metaphysics of Bradley, Bergson, Whitehead, and related thinkers.

- 202a. *Logic*: Mr. Leblanc.

An introduction to modern logic.

- 202b. *Ethics*: Mr. Nahm.

The theory and problems of various types of ethics, hedonist, utilitarian, rational and idealist, with particular emphasis upon the analysis of action and judgment, rightness and goodness, and obligation.

- [203b. *Mediaeval Philosophy*.]

The history of the development of mediaeval philosophy, with more detailed study and discussion of the Thomist solution of the mediaeval problem and the basis of a modern interpretation of Thomism.

204. *Philosophy of Religion*: Miss Potter.

The existence and nature of God and the character of religious language.

- 205a. *Russian Ethical and Social Theory*: Mr. Kline.

A critical survey of major trends in Russian ethics and social philosophy from the eighteenth century through the Soviet period, with principal emphasis upon nineteenth-century thinkers, both Marxist and non-Marxist.

- 301a. *Aesthetics*: Mr. Nahm.

Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic experience.

301b. *Theory of Knowledge*: Mr. Leblanc.

An analysis of the scope, structure, and methods of science in the light of recent philosophy.

302a. *Plato*: Miss Stearns.

A detailed study of some of the later dialogues.

302b. *Philosophy of History*: Mr. Ferrater Mora.

The philosophical interpretation of history, its meanings and laws.

[303b. *Contemporary Philosophy*: Mr. Ferrater Mora.]

An outline and appraisal of some major present-day schools, such as Phenomenology, Existentialism, Logical Positivism, Neo-Scholasticism, Marxism and others.

[304b. *Aristotle*: Mr. Ferrater Mora.]

A study of Aristotle's system, with emphasis upon such fundamental problems as language, substance, change, being, and the Prime Mover.

[305a. *Hegel*: Mr. Kline.]

A study of Hegel's philosophy, with emphasis upon *The Phenomenology of Mind* and with some reference to the Hegelian influence on Existentialism.

FINAL EXAMINATION: The final examination consists of three written examinations in the following fields, offering a wide choice of questions: Ancient Philosophy, Modern Philosophy, Systematic Philosophy or Philosophy of Religion. For the first two, a subject such as "causation," "mind," "freedom," or "time" is studied in the writings of important philosophers. For the third, a field in Philosophy of Religion or the philosophy of an important modern thinker is intensively examined.

HONORS WORK: Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics, and science, or with some special field in which the student is working.

Physics

PROFESSOR:	WALTER C. MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ROSALIE C. HOYT, PH.D. JOHN R. PRUETT, PH.D.
ASSISTANT PROFESSOR:	W. PAUL GANLEY, PH.D.
LECTURER:	LYLE W. PHILLIPS, PH.D.
ASSISTANTS:	MILLARD MIER, B.A. RICHARD SAKURAI, B.A. JOAN GRACE, B.A. PRISCILLA WATSON, B.A.

The courses offered to students majoring in Physics emphasize the techniques that have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena.

REQUIREMENTS IN THE MAJOR SUBJECT: Physics 101, 201a and 202b, and at least one and one-half units of advanced work, to be chosen from 301-305 inclusive; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended.

ALLIED SUBJECTS: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. *Introduction to Modern Physics*: Mr. Michels, Mr. Ganley, Mr. Phillips.

A study of the principal phenomena of classical and modern physics in the light of the developments of the past sixty years. Three lectures and three hours of laboratory a week.

201a. *Electricity and Magnetism*: Mr. Pruett.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101, Mathematics 201 (may be taken concurrently).

202b. *Optics*: Mr. Pruett.

Geometrical optics, interference and diffraction phenomena, polarization. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. *Classical Mechanics*: Mr. Ganley.

Newtonian mechanics of particles and of rigid bodies, special relativity, generalized mechanics. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

303b. *Statistical Thermodynamics*: Mr. Michels.

The application of mechanics and probability concepts to systems of particles; the laws of classical thermodynamics and their connection with statistical models; equilibrium and transport problems; classical and quantum statistics. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics*: Mr. Pruett.

The foundations of classical mechanics and electromagnetic theory, including generalized mechanics, vibrating systems, the wave equation, Laplace's equation, Maxwell's equations, electromagnetic waves. Mathematical methods are developed as needed. Four lectures a week. Prerequisites: Physics 201a, 201b, 301a and 302b (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a and 303b.

305c. *Physical Measurements*: Mr. Ganley.

Precision measurements of electromagnetic, optical and atomic phenomena. Four hours of laboratory a week. Prerequisites: Physics 301a and 303b (may be taken concurrently).

[351.* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

The emphasis of this course is divided between the experimental techniques and the theoretical methods of physics. Examples of applications of these methods and techniques will be chosen to meet the major interests of the students. Three lectures and four hours of laboratory a week. Prerequisites: Physics 101, Mathematics 101, and second-year work in Chemistry or Biology.

FINAL EXAMINATION: The final examination for students majoring in Physics is in three parts:

1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in the special field of Atomic and Nuclear Physics (required of all students). The student will devote one semester of the preparation for the final examination in independent work and reading for this examination.

HONORS WORK: Honors work may be taken by seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.

Political Science

The Caroline McCormick Slade Department of Political Science

PROFESSOR:	ROGER H. WELLS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	PETER BACHRACH, PH.D. MELVILLE T. KENNEDY, JR., PH.D. GERTRUDE C. K. LEIGHTON, A.B., LL.B. ¹
VISITING LECTURER:	FREDERICK S. DUNN, PH.D., LL.D.
LECTURER:	CHARLES J. COOPER, A.B., LL.B.
INSTRUCTOR:	ALICE F. EMERSON, A.B.
ASSISTANT:	RICHARD A. GILLIS, A.B.

DEAN OF THE

COLLEGE: DOROTHY NEPPER MARSHALL, PH.D.

The major in Political Science is concerned with study of theories of government and with analysis of the structures and processes of modern political communities.

REQUIREMENTS IN THE MAJOR SUBJECT: Political Science 101a and 102b, one unit of second-year work and one unit of advanced work, and Economics 101. The second-year courses in Political Science are open to students who are not majors in the Department if they have completed one unit in allied subjects. With

1. On leave of absence for the year 1961-62.

the permission of the Department, various courses at Haverford College may be taken for major or allied credit.

ALLIED SUBJECTS: Anthropology, Economics, Education, History, Philosophy, Psychology and Sociology. With the permission of the Department, certain courses offered by the modern language departments may be accepted as allied subjects.

101a. *Political Process in the United States*: Mr. Bachrach, Mr. Kennedy, Mrs. Emerson.

An introduction to the study of American political behavior. Major attention is given to the political, economic and social beliefs of democracy and to the governmental institutions and processes through which they are expressed. Decision-making and the sharing of power are examined in relation to the individual and to political parties, pressure groups and public opinion.

102b. *World Political Process*: Mr. Kennedy, Mr. Cooper, Mrs. Emerson.

An introduction to the study of political behavior at the international level. The course deals with the basic institutions, processes, values and resources common to peoples and nation-states.

201a. *Western Political Theory, 1600 to the Present*: Mr. Bachrach.

A study of the fundamental problems of modern Western political thought, based on an analysis of the writings of the leading theorists.

202a. *Aspects of Latin American Politics*: Mrs. Marshall.

A study of basic factors underlying United States' relations with Latin America and trends in Latin American political development with special emphasis on the contemporary period.

[203a. *Political Parties*: Mr. Wells.]

204b. *American Constitutional Law*: Mr. Bachrach.

A detailed analysis of selected Supreme Court decisions on four or five leading topics.

205a. *Government and Politics in East Asia*: Mr. Kennedy.

An examination of both traditional and contemporary political ideas and institutions directed particularly to the question of continuity and change in the present scene. The course focuses on China and Japan.

[206a. *American State and Local Government*: Mr. Wells.]

207b. *Communism and Nationalism in Asia*: Mr. Kennedy.

A survey of the development of modern China, including Sino-Japanese and Sino-Russian relations. The course primarily aims to throw light on the nature of Communist China.

208a. *The Soviet System*: Mr. Hunter, Haverford College.

See Interdepartmental Course 208a, page 115.

209b. *Britain and the Commonwealth*: Mr. Wells.

With special reference to African problems.

[301. *The Theory and Practice of Democracy*.]

See Interdepartmental Course 301, page 115.

[302b. *Western Political Theory, Plato to 1600*: Mr. Wells.]

[303b. *France and Germany*: Mr. Wells.]

[304a. *Public Administration*: Mr. Wells.]

[305b. *American Political Theory*: Mr. Bachrach.]

306a. *Law and Society*: Mr. Cooper.

An introduction to the nature of legal obligation and its relation to selected social institutions. Typical legal problems pertaining to the family, business and government are discussed.

307b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz (Department of Economics).

See Interdepartmental Course 307b, page 115.

- 308a. *Government and Politics in Metropolitan Areas*: Mr. Wells.

With special reference to federal-state-local relations in the United States and with some examination of relevant economic and sociological factors.

- [309b. *Public Opinion and Propaganda*: Mr. Bachrach.]

- 310a. *Politics and Diplomacy in the International Arena*: Mr. Dunn.

An examination of the nature of the international political world—the Communist international system, the Western international system, the unaligned states, and their interactions; the impact of nuclear weapons on the use of force in international affairs; the making of foreign policy in a democracy.

- 311b. *Organized International Action*: Mr. Dunn.

An investigation of the problems of arms control and the furtherance of general welfare through international institutions; international law as doctrine and as a method of reasoning; the effect of the nuclear age on conceptions of national jurisdiction—land, sea and air; non-intervention and human rights.

FINAL EXAMINATION: The final examination consists of two three-hour examinations, the first of which is the general examination in Political Science and must be taken by all seniors majoring in the Department. The second represents a more limited field and is to be selected from the following: Political Theory; The Legal Process; The American Political Community; World Political Systems. If desired, the second part of the final examination may deal with an allied subject. Seniors are expected to attend the weekly senior conference.

HONORS WORK: In addition to the course requirements, one unit of Honors work may be taken by Political Science majors under the supervision of members of the Department. This involves a weekly conference by the student with her supervisor; independent reading, research and, where necessary, field work; and a written report or reports on the topic selected, which must be completed by May 7.

Psychology

PROFESSORS:	MORTON EDWARD BITTERMAN, PH.D., <i>Chairman</i> RACHEL DUNAWAY COX, PH.D.
ASSOCIATE PROFESSORS:	DONALD ROBERT BROWN, PH.D. ROBERT SIMON DAVIDON, PH.D. WILLIAM AUGUST WILSON, JR., M.D., PH.D.
ASSISTANT PROFESSOR:	RICHARD CHARLES GONZALEZ, PH.D.
ASSISTANTS:	VIRGIL A. GRAF, A.B. WILLIAM A. ROBERTS, B.S.

The Department offers to the major student a representative account of methods and findings in the principal areas of psychological inquiry. Problems of application are considered, and the relation of psychology to other natural and social sciences is emphasized. The major program prepares the student for graduate work.

REQUIREMENTS IN THE MAJOR SUBJECT: Psychology 101; two of the following four courses: Psychology 201a, 205b, 301b, 305b; two of the following four courses: Psychology 202b, 302a, 303b, 304b; Psychology 307a; and one additional unit in Psychology. Psychology 204a is strongly recommended to students preparing for graduate work.

ALLIED SUBJECTS: Anthropology, Biology, Economics, Education, Mathematics, Philosophy, Physics, Political Science, and Sociology.

101a. *General Psychology*: Mr. Bitterman.

A survey of basic facts and principles: perception, motivation, emotion, learning, thinking. Three hours of lecture and two hours of laboratory each week.

101b. *Social Psychology*: Mr. Brown.

The psychological determinants of social behavior. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101a.

201a. *Learning and Thinking*: Mr. Gonzalez.

Fundamental processes of mammalian learning; verbal learning and retention; meaning and creative thought. Three hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 101.

202b. *Psychological Testing*: Mrs. Cox.

The clinical study of the individual with particular reference to intelligence, special aptitudes and personality. Construction and use of leading instruments, with opportunity for observation and testing. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

204a. *Experimental Methods and Statistics*: Mr. Wilson.

Measurement and the design of experiments; descriptive statistics, probability, association, testing of hypotheses. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

205b. *Perception*: Mr. Davidon.

Differentiation and organization of the physical environment; bodily processes and inner determinants of perceiving; the self and social environment as perceived. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 101.

301b. *Physiological Psychology*: Mr. Wilson.

The bodily basis of experience and behavior. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 101.

302a. *Psychology of the Normal Personality*: Mr. Brown.

Developmental, clinical and experimental evidence relating to the "normal" personality. Supervised case-study. Three hours of lecture each week. Prerequisite: Psychology 101.

303b. *Advanced Social Psychology*: Mr. Brown.

The psychological implications of man's social existence. Prerequisite: Psychology 101 or permission of the instructor.

[304b. *Psychology of the Abnormal Personality*: Mr. Brown.]

Concepts of normality, types of abnormality, methods of

investigation, and principles of psychotherapy. Three hours of lecture each week and occasional trips to local hospitals for special lectures and demonstrations. Prerequisite: Psychology 302a.

305b. *Comparative Psychology*: Mr. Bitterman.

The psychology of animals: instinctive activities, motivation, learning, group processes, behavior disorders. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 201a.

306a and b. *Advanced Experimental Psychology*: Members of the Department.

Specialized training in a selected area of investigation. May be taken in either semester or throughout the year. Prerequisite: Permission of the Department.

307a. *History of Psychology*: Mr. Davidon.

A seminar for senior majors in the historical background of contemporary psychology. Two hours each week.

Comprehensive Survey: Members of the Department.

Weekly conferences with majors during the second semester of the senior year in preparation for the Final Examination.

FINAL EXAMINATION: The final examination is in three parts:

1. General Psychology.
2. Experimental Methods.
3. A specialized examination in one of the following fields:
 - Comparative Psychology
 - Learning and Thinking
 - Perception
 - Personality, Normal and Abnormal
 - Physiological Psychology
 - Psychological Testing
 - Social Psychology

An Honors Thesis or (with the approval of the Department) an examination in an allied field may be substituted for Part 3.

HONORS WORK: One unit of Honors work may be taken by students nominated by the Department. This unit may be substituted for Part 3 of the final examination.

Russian

ASSOCIATE PROFESSORS: FRANCES DE GRAAFF, PH.D., *Chairman*
GEORGE L. KLINE, PH.D.

ASSISTANT PROFESSOR: RUTH C. PEARCE, PH.D.

LECTURER: GALIA S. BODDE

PROFESSOR OF ENGLISH: BETTINA LINN, M.A.

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of pre-revolutionary as well as contemporary Russia. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In Russian 1, 101, 202c, the use of the Laboratory forms an integral part of the course.

REQUIREMENTS IN THE MAJOR SUBJECT: Russian 1, 101, 201, 200c and one advanced course. Also Russian 203 or History 206 (History of Russia). If a student offers Russian for entrance, Russian 203 or History 206 may be substituted.

ALLIED SUBJECTS: History 204b, 206 (strongly recommended), 301; Political Science 201a, 210; any language or literature, History of Art, Music, Philosophy.

1. *Elementary Russian*: Miss de Graaff, Mrs. Pearce, Mrs. Bodde.

The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. *Intermediate Russian*: Mrs. Bodde, Mrs. Pearce.

Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

200c. *Advanced Training in the Russian Language*: Mrs. Bodde.

201. *Readings in Russian Literature*: Miss de Graaff.

Representative writers of the nineteenth century. Conducted mostly in Russian.

202.* *General Readings in Russian*: Mrs. Bodde.

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports by the students and discussion of specific topics in Russian. Prerequisite: two years of Russian.

203.* *Russian Literature in Translation*: Miss de Graaff.

The leading Russian writers of the nineteenth century in translation. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace* and two of Turgenev's novels.

An advanced course, given in Russian, is selected from the following:

[301. *Russian Poetry of the Nineteenth Century*: Miss de Graaff.]

[302. *Pushkin and His Time*: Miss de Graaff.]

303. *Russian Literature of the Twentieth Century*: Mr. Kline.

[304. *Social Trends in Nineteenth Century Russian Literature*: Miss de Graaff.]

FINAL EXAMINATION: The final examination for students majoring in Russian consists of three parts:

1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A single topic of Russian literature or an allied subject. The Department is especially interested in allied subjects in the social sciences.

HONORS WORK: Honors work is offered to students recommended by the Department.

Sociology and Anthropology

PROFESSOR OF ANTHROPOLOGY:	FREDERICA DE LAGUNA, PH.D. <i>Chairman</i>
ASSOCIATE PROFESSOR OF SOCIOLOGY:	EUGENE V. SCHNEIDER, PH.D. ¹
ASSISTANT PROFESSOR OF ANTHROPOLOGY:	EDWARD B. HARPER, PH.D. ¹
LECTURER IN ANTHROPOLOGY:	JANE C. GOODALE, PH.D.
LECTURER IN SOCIOLOGY:	SAMUEL W. BLOOM, PH.D.
<hr/>	
ASSOCIATE PROFESSOR OF SOCIAL WORK AND SOCIAL RESEARCH:	BERNARD ROSS, PH.D.
AT HAVERFORD PROFESSOR OF SOCIOLOGY:	IRA DE A. REID, PH.D.
ASSOCIATE PROFESSOR OF SOCIOLOGY:	PAUL HARE, PH.D.

The student may select one of three programs: (1) A major in Anthropology, (2) A major in Sociology, (3) A joint major in Sociology and Anthropology. Each of these programs is described below.

ANTHROPOLOGY

The aim of the major is to introduce the student to an understanding of man and his works, evolution, the origin and development of culture, and the basic cultural patterns and social processes in diverse societies. The advanced courses explore special fields or areas, and also discuss theories about cultural processes and the nature of culture itself.

REQUIREMENTS IN THE MAJOR SUBJECT: 101, 203a and b, 204a or 209a, 301b, 303a or 304a.

ALLIED SUBJECTS: Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Philosophy, Political Science, Psychology, Sociology.

1. On leave of absence for the year 1961-62.

101. *Man, Culture and Society*: Miss de Laguna.

Man's place in nature; the development of human culture to the rise of the early civilizations in the Old and New Worlds; the nature of culture and its forms among primitive peoples.

203a. *Primitive Culture*: Miss Goodale.

Analysis of significant studies of culture in selected areas, illustrating the methods and aims of ethnography. Prerequisite: Anthropology 101.

203b. *Primitive Society*: Miss Goodale.

Social structures of preliterate peoples; their functions and the types of sanctions which control their members. Prerequisite: Anthropology 101 and 203a.

[204a. *American Archaeology*: Miss de Laguna.]

Introduction to the archaeology of the Indians of Middle and North America. Prerequisite: Anthropology 101 or 209b, or Classical Archaeology 101, or permission of instructor.

[205b. *Religion of Primitive Peoples*: Mr. Harper.]

The nature of primitive religious systems; magic, witchcraft, myth and ritual.

209a. *Stone Age Man and the Modern World*: Miss Goodale.

Contemporary hunting and gathering peoples in the old and new worlds; their adjustments to their natural environments; their relation to stone age cultures of the past, their contributions to and relations with modern civilized cultures.

209b. *The American Indian*: Miss de Laguna.

The Indians of Middle and North America as presented in such literary sources as reports of early explorers, anthropological novels, and native autobiographies, revealing ethos and cultural values.

301b. *Cultural Theory*: Miss Goodale.

Analyses of the important classical and modern contributions to ethnological theory. Prerequisite: Anthropology 203a.

[303a. *Village India*: Mr. Harper.]

Caste dynamics, political control, economic organization and religion in Hindu Villages.

304a. *Culture and Personality*: Miss de Laguna.

The relation of human personality to culture and its variations in different cultural settings. Prerequisite: Anthropology 101 and 203a.

FINAL EXAMINATION: The final examination for students majoring in Anthropology is in three parts:

1. General Anthropology.
2. History and Theory.
3. A special field or project in Anthropology, or an allied field.

HONORS WORK: Honors work is offered to students of marked ability, and will consist of independent reading, reports and conferences, and the preparation of a written report.

SOCIOLOGY

The aim of the major in Sociology is to provide the student with a general understanding of the structure and functioning of modern society, its major institutions, groups, values, and of the interrelations of these with personality. Attention is also paid to the major stresses and strains of modern society, and the resultant social problems. Free elective work is offered to those who may be interested in applying their knowledge to the field of social work.

The work of this program is closely integrated with the work in Sociology offered at Haverford College. The student will note that one course is required at Haverford, and that other courses are open for the major work.

REQUIREMENTS FOR THE MAJOR SUBJECT: 102a and b, 21a (Haverford), 201b or 206b, 302a, and one further unit of work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford. In addition, the student is required to take one of the following courses: Anthropology 101, Economics 101, or Psychology 101.

ALLIED SUBJECTS: Anthropology, Economics, Psychology, Political Science, Philosophy, History and Statistics.

102a. *Introduction to Sociology*: Mr. Bloom.

An analysis of the basic sociological perspectives, methods and concepts used in studying society. Attention will be paid to

various forms of social organization; groups, crowds, publics, institutions, organizations. Examples will be drawn from several non-industrial societies.

102b. *Social Institutions*: Mr. Bloom.

Analysis of the structure and dynamics of complex, industrial societies. Examples will be drawn from several societies, but major emphasis is on the United States.

201b. *Mass Communications Analysis*: Mr. Bloom.

A survey of communications research and its implications for social process, with emphasis on studies of the channels, the content, and the effects of the modern mass communication media.

202a.* *History and Philosophy of Social Welfare*: Mr. Ross.

American social welfare programs, their heritage and future trends; social work as an institution and profession.

[207b. *Race Relations and Minority Groups*: Mr. Schneider.]

The position and problems of several minority groups in American and other societies, relations between minority and majority groups, prejudice and discrimination.

302a. *Social Theory*: Mr. Bloom.

Analysis of the theoretical work of several classical and modern thinkers.

SOCIOLOGY AT HAVERFORD

21a. *Social Research*: Mr. Hare.

An analysis of classic and significant studies in the fields of social sciences with a view toward understanding the methods, tools, techniques, and hypotheses of social research. Studies will demonstrate the use of statistical, case, historical and other research procedures. Individual projects.

22b. *Social Research*: Mr. Hare.

Elementary principles and techniques of electronic computer programming in social research.

33a. *Population Policies and Problems*: Mr. Reid.

A study of the restrictive, expansive, and eugenic aspects of national population policies as they are related in demographic

theory. Special reference is given to the problems of fertility and mortality, density, immigration and food supply.

35a. and 35b. *The Sociology of Small Groups*: Mr. Hare.

Theoretical and experimental analyses of the structure and interactions systems of small social groups. Special attention is given to the methodologies of sociometry and field theory and their relevance for economic, political and social situation analysis.

37a. *The Family*: Mr. Reid.

A study of the institutions designed to guarantee the perpetuation of the group and its cultural heritage in comparative societies. The course will analyze functions, forms and processes of the institutions of marriage and the family. Individual projects.

38a. *The Modern Urban Community*: Mr. Reid.

A study of the social and spatial aspects of modern urban community organizations as influenced by personal, technological, ecological, economic and political factors. Special attention is given to the problems and processes of planning. Individual projects.

40a. *Race and Ethnic Groups in the Modern World*: Mr. Reid.

An analysis of the secularization of the world's people and the contemporary "minorities" situations in the world; how these situations arise; how they are perpetuated. Special attention is given to theories and methods of analysis.

45b. *Social Disorganization and Deviant Behaviour*: Mr. Hare.

An analysis of the theories and problems of social disorganization as they are related to conformity and deviancy in human behaviour. The course will be based on a series of specially designed case studies dealing with the situations and roles of the gambler and the speculator, the migrant and the vagrant, the sexual deviant, the alcoholic and the drunkard, the spectator and the performer, the delinquent and the criminal, the conscientious objector and the radical. Lectures, discussions, field trips, reports.

52a. *Issues in Society*: Mr. Reid.

This seminar is designed to treat a sociological situation of current or potential importance, emphasizing the nature and

problems of social fact, social values and the social process. The current course will be concerned with sociological aspects of knowledge.

FINAL EXAMINATION: The final examination for students majoring in sociology is in three parts:

1. Sociology.
2. A special field in Sociology.
3. An allied field.

HONORS WORK: Honors work is offered to selected students and will consist of independent reading and research, conferences, and the preparation of a written report.

JOINT MAJOR IN SOCIOLOGY AND ANTHROPOLOGY: The aim of the major is to provide the student with a general understanding of human society and human culture as these have developed in different parts of the world from prehistoric to modern times. Man's racial and cultural history is traced, and analyses are made of cultural and social institutions of primitive and complex societies. The advanced work is planned to bring together the major contributions in the fields of social and cultural theory.

REQUIREMENTS IN THE MAJOR SUBJECT: 101, 102a and b, 212 (HAVERFORD), or another half unit of second-year Sociology, 203a, 301b, and 302a.

FINAL EXAMINATION: The final examination for students taking the joint major is in three parts:

1. General Anthropology.
2. Sociology.
3. A second field in either Anthropology or Sociology; or an allied field.

HONORS WORK: Honors work in the joint major is offered to students recommended by the Department, and will consist of independent reading and research, conferences, and the preparation of a written report.

Spanish

DEAN OF THE COLLEGE:	DOROTHY NEPPER MARSHALL, PH.D.
PROFESSOR:	FRANCISCO AYALA, <i>D. en D.</i> , <i>Chairman</i>
ASSISTANT PROFESSOR:	WILLARD FAHRENKAMP KING, PH.D. ¹
VISITING LECTURER:	VICENTE LLORÉNS, <i>Lic. F.L.</i>
INSTRUCTORS:	MIGUEL GONZALEZ-GERTH, M.A. PHYLLIS TURNBULL, M.A.

PROFESSOR OF PHILOSOPHY: JOSÉ MARIA FERRATER MORA, *Lic. F.L.*

The major in Spanish includes work in both literature and language. It includes a two-year survey of Spanish literature, followed by more specialized advanced courses dealing with the literature of special periods, or with various literary forms. One course is devoted to training in written and spoken Spanish. Students are encouraged to supplement their course work by spending the Junior year in Spain or a summer in a Spanish-speaking country, or by living in the Spanish House. It is strongly advised that all students make use of the tapes available in the Language Laboratory. In Spanish 1 and 3 the use of the Laboratory forms an integral part of the course.

REQUIREMENTS IN THE MAJOR SUBJECT: Spanish 101, 102 and at least two advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202.

ALLIED SUBJECTS: Any other language or literature, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology and Anthropology.

1. *Elementary Spanish*: Mr. Gonzalez-Gerth, Mrs. King, Miss Turnbull.

Grammar, composition, readings on the Spanish and Spanish-American background.

3. *Intermediate Spanish*: Mr. Gonzalez-Gerth, Miss Turnbull.

Intensive grammar review and exercises in composition and conversation.

1. On leave of absence, semester II, 1961-62.

- [101. *Masterpieces of Spanish Literature (from 1700 to 1936)*: Mrs. King.]

A panoramic view of the development of Spanish literature during the eighteenth, nineteenth and twentieth centuries, emphasizing representative works of each period or literary school: Neoclassicism, Romanticism, Realism, etc.

102. *Masterpieces of Spanish Literature (from the Poema del Cid to 1700)*: Mrs. King.

A survey of Mediaeval, Renaissance and Baroque literature, emphasizing the development of the various genres. Special attention is given to the Spanish Golden Age.

202. *Spanish Readings and Composition*: Mr. Ayala.

Designed to aid the student in interpretation of texts, appreciation of stylistic differences, translation, and original composition in Spanish. Assignments are adapted to the needs and level of achievement of the individual student.

- [203a. *Introduction to Latin American History*.]

Conducted in English. A general view of the cultural history of Latin America. Students majoring in Spanish, or with a sufficient knowledge of the language, will work with original texts.

- [302a. *The Modern Essay in Spain and Spanish America*: Mr. Ayala.]

Essayists and moralists in Spain and Spanish America from the end of the nineteenth century to the present.

- [302b. *The Spanish American Novel*: Mr. Ayala.]

The American novel in the Spanish language: development, special characteristics, relation to other literatures, present tendencies.

- 303a. *The Modern Novel in Spain*: Mrs. King.

The development of the Spanish narrative from the Generation of 1898 to the present.

- 303b. *Modern Spanish Poetry*: Mr. Lloréns.

Spanish poetry from *modernismo* to the present.

[304a. *Drama of the Golden Age*: Mrs. King.]

Representative works of Cervantes, Lope de Vega, Tirso de Molina, Calderón and other outstanding dramatists.

[304b. *The Age of Cervantes*: Mrs. King.]

The development of Cervantes' art in the drama, the short story, and the novel, with special attention to *Don Quixote*.

305. *Prose Fiction of the Renaissance*: Mr. Ayala.

From *La Celestina* to *Don Quixote*.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination in Spanish consisting of the explanation and interpretation of a Spanish text.
2. A three-hour written examination in Spanish on a period of Spanish literature.
3. A three-hour written examination on the development of a literary genre through Spanish literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: Honors work is offered to students recommended by the Department. This work consists of independent reading conferences and a long paper.

Interdepartmental Courses

The following courses are given by several departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them.

[202. *Aspects of Eighteenth Century Life and Thought*: Miss Robbins, Miss Northrop, Miss Stapleton.]

203. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.

The development of scientific ideas is traced against the historical background of other intellectual activities, social changes, and technological inventions. Important scientific concepts and theories are analyzed, and the basic assumptions of scientists of the past are compared with those of the present day. The course is open to students who have had one year of laboratory science in college, and should be of special interest to those majoring in History, Philosophy, Mathematics, or Science.

208a. *The Soviet System*: Mr. Hunter, Haverford College.

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisites: Economics 101 or Political Science 101a and 102b or History 101. (This course is also listed as Political Science 208.)

[301. *The Theory and Practice of Democracy*: Mr. Wells, Miss Stapleton, Miss Stearns, Mr. Hubbard.]

307b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz.

A study of political power, with special reference to current controversies in the United States as to the nature and sources of power and with analysis of the implications for the democratic process. (This course is also listed as Political Science 307b.)

Physical Education

DIRECTOR:	IRENE A. CLAYTON, M.S.
INSTRUCTORS:	ETHEL M. GRANT GLORIA SCHMIDT, M.A. JANET YEAGER

Through the offerings in the Physical Education Department, students are given opportunities to participate in varied fields of both individual and team sports, dance and aquatic activities. Class instruction during the first two years enables the student to learn new skills or to improve her techniques. Interclass, interhall and varsity schedules of games and tournaments offer all students the experience of competition in sports. Creative interest in modern dance is encouraged through class work and extra-curricular programs. The Department cooperates with the Athletic Association and in promoting the activities of the Dance Club, Synchronized Swimming Club, and Outing Club.

The freshman requirement in Physical Education consists of three periods a week throughout the year; part of the Fall, Winter I and Winter II terms will be given over to the study of Rhythms as related to good movement along with the fundamentals of Modern Dance. All of Winter I is devoted to the basic principles of good movement with an especial application to sports activities. The sophomore requirement consists of two periods a week throughout the year. All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student who is not excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Transfer students will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings from which election may be made are:

FALL: archery, fencing, fundamental skills, golf, hockey, modern dance, riding,* swimming, tennis, volleyball, and American Red Cross Senior Life Saving Course. WINTER: badminton, basketball, diving, fencing, folk dance, golf, modern dance, skating,* swimming, volleyball, and American Red Cross Water Safety Instructor Training Course. SPRING: archery, golf, lacrosse, riding,* swimming, tennis and volleyball.

SWIMMING TEST: one standing dive, back float two minutes, tread water one minute, bobbing twice, and swimming any stroke 20 minutes.

* Open only to Sophomores, with permission of the Department.

Academic Awards

THE scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. The awards made from some scholarship endowments are reported in specific amounts. In the case of other awards for which the specific amount is not reported, the stipend is set according to the needs of the student.

Three outstanding national scholarship programs have recently been established by the General Motors Corporation, the National Merit Scholarship Corporation and the Procter and Gamble Fund. The Ford Company has a scholarship program for the children of its employees as do other large corporations. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Scholarship aid is held each year by twenty-eight to thirty per cent of undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately \$1000. The Scholarship Committee judges requests for aid on the basis of academic promise and achievement on the one hand, and financial need on the other. Committee decisions take into account letters of recommendation from members of the Faculty and the financial situation of the student as it is presented in application blanks completed by the candidate and her family.

Scholarships are available both to entering students and to those who have completed one or more years of study in the College. Students entering on transfer from other colleges are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

APPLICATIONS FOR SCHOLARSHIPS TO BE HELD AT ENTRANCE

Application forms for entrance scholarships may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. *Applications should be filed by January 15 of the student's senior year in high school.* The form entitled *Parents' Confidential Statements in Support of Applications for Financial Aid* should be returned to the College Scholarship Service, Box 176, Princeton, New Jersey.

Bryn Mawr is participating in the College Scholarship Service of the College Entrance Examination Board. The colleges using the Service join in the belief that scholarships should be awarded to properly qualified students after careful consideration of the financial need of the students and their families. The College Scholarship Service acts as a clearing house for applications, sending to the College the report from parents or guardians. The College itself selects the award winners and decides upon the terms of the awards.

Scholarship applicants who register under the Early Decision Plan will be responsible for obtaining and filing by *October 1* of the senior year both the Bryn Mawr scholarship application and the Parents' Confidential Statement of the College Scholarship Service. Scholarship winners in this group will be notified of awards by December 1.

UNDERGRADUATE SCHOLARSHIPS

The renewal like the award of scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed forms must be returned to the Dean of the College by March 1.

The dates in parentheses in the listings on the following pages indicate the year the scholarship was established.

Scholarships

SCHOLARSHIPS AWARDED AT ENTRANCE AND TENABLE FOR FOUR YEARS

Bryn Mawr Alumnae Regional Scholarships are available to students in all parts of the United States. These scholarships, raised by alumnae, vary in amount but generally cover full tuition. A list of the regional districts and of the Alumnae District Councillors will be found on page 138. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured of assistance either from alumnae committees in their districts or from the College. (1922)

The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College was founded by bequest of Florence C. Child of the Class of 1905. The income from this fund of \$115,494 is to be used for the residence fees of one or more students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will then be assigned by the College to students who could not live in residence without such assistance and who are not holding other scholarships. (1957)

The Charles E. Ellis Scholarship, value \$700, tenable for four years, was founded by bequest of the late Charles E. Ellis. It is awarded on the recommendation of the Superintendent of Public Schools of the City of Philadelphia, subject to the approval of the Board of Directors of Bryn Mawr College, to a student educated in the Philadelphia public schools. (1909)

The Foundation Scholarships, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They may be awarded annually to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

The Priscilla Hunt Scholarship was given in memory of Priscilla Hunt of the Class of 1950 by her mother and father,

Ruth Van Natta Hunt and Leigh L. Hunt. The scholarship, awarded first in 1955-1956 and again in 1959-1960 in the amount of \$1,000 and tenable for four years, will be awarded to a candidate from certain counties in the state of Indiana. (1955)

The Minnie Murdoch Kendrick Memorial Scholarship, tenable for four years, was founded by bequest of \$5,000 under the will of George W. Kendrick, Jr., in memory of his wife. It is awarded every four years to a candidate nominated by the Board of Public Education of Philadelphia. The most recent award was in 1959-1960. (1916)

The Gertrude Howard McCormick Scholarship Fund was established by gift of \$25,000 by the late Gertrude Howard McCormick. The scholarship, value \$1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

The Philadelphia Board of Public Education Scholarships are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)

The Procter and Gamble Scholarship provides an amount equal to full tuition and fees, and an allowance for books. The scholarship may be renewed annually throughout the four years on the basis of successful undergraduate performance and continuing financial need. This scholarship program was established by the Procter and Gamble Fund "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

The Lidie C. B. Saul Scholarship, tenable for four years, is given by the Alumnae Association of the Girls' High School and Normal School of Philadelphia. It is awarded every four years to the graduate of the Girls' High School who enters Bryn Mawr College with the highest grade of that year. (1895)

Seven College Conference Scholarships are awarded annually by the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley). One scholarship, varying in amount up to full expenses for tuition and residence, is given annually by each of the colleges in each of three areas: the *far west* (Washington, Oregon, California and

Idaho), the *central states* (Kansas, Missouri, Nebraska and Colorado), and the *southwest* (Arizona, Louisiana, New Mexico, Oklahoma, Texas and Arkansas). One of these scholarships is supported at Bryn Mawr by a grant made by the *George F. Baker Trust*. (1950) The others are supported by income from the *Fanny R. S. Peabody Fund* of \$177,927. (1943)

The Frances Marion Simpson Scholarships, carrying free tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to \$20,000. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties or at home by parents or guardians; thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

The Trustees' Scholarships, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

FOR FOREIGN STUDENTS

The Chinese Scholarship, awarded every four years and tenable for four years, comes in part from the annual income of a fund now totalling \$30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses

of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

The Marguerite N. Farley Scholarships for foreign students were established by bequest of Marguerite N. Farley. The income from a fund of \$331,425 will be used for scholarships for foreign graduate and undergraduate students covering part or all of their expenses for tuition and residence. (1956)

The Special Trustees' Scholarship is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. The scholarship for students from foreign countries was first offered by the Trustees in 1940.

The Undergraduate Scholarship, raised and awarded by the Undergraduate Association in consultation with the President and the Director of Admissions, is awarded every four years to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition. (1938)

For other four-year scholarships, not in the award of Bryn Mawr College, students should see page 118.

SCHOLARSHIPS AWARDED AT ENTRANCE AND TENABLE FOR THE FRESHMAN YEAR ONLY

The Bryn Mawr School Scholarship, instituted by the Board of Managers of the Bryn Mawr School of Baltimore, Maryland, has been offered annually since the College opened in 1885 to the graduate of the Bryn Mawr School who has completed the school course with the greatest distinction and who plans to enter Bryn Mawr College.

The Alice Day Jackson Scholarship Fund of \$10,000 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. (1930)

The Clara Bertram Little Memorial Scholarship was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling \$10,000 is awarded to a student from New England selected by the President on the basis of merit and financial need. (1947)

The Louise Hyman Pollak Scholarship was founded by the Board of Trustees from a bequest of \$5,061 by Louise Hyman Pollak of the Class of 1898. The income from this fund now totalling \$6,666, supplemented by gifts from Julian A. Pollak, is awarded annually to a student from one of the central states,

east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

The Amy Sussman Steinhart Scholarship, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now totalling \$11,383 is awarded annually to a student from one of the states on the west coast. (1932)

The Evelyn and Caroline Warram—Bryn Mawr Scholarship, carrying free tuition, was given by Mr. and Mrs. James H. Warram. It is to be awarded each year to an entering student from the State of Oklahoma. (1956)

SCHOLARSHIPS AWARDED AT THE END OF THE FRESHMAN YEAR AND TENABLE FOR THE THREE SUBSEQUENT YEARS

The Jeannette Peabody Cannon Memorial Scholarship Fund, now totalling \$7,405, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years at the termination of the freshman year on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class residing in New England who needs financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. (1949)

The Leila Houghteling Memorial Scholarship Fund in the amount of \$10,000 was founded in memory of Leila Houghteling of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

SCHOLARSHIPS AWARDED AT THE END OF THE FRESHMAN YEAR AND TENABLE FOR THE SOPHOMORE YEAR ONLY

The Maria Hopper Scholarships, two in number, were founded by bequest of \$10,000 under the will of Maria Hopper of Philadelphia and are awarded annually. (1901)

The James E. Rhoads Memorial Sophomore Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

SCHOLARSHIPS AWARDED AT THE END OF THE
SOPHOMORE YEAR AND TENABLE FOR THE
TWO SUBSEQUENT YEARS

The Annie Lawrie Fabens Crozier Scholarship Fund was established by a gift of \$31,650 from Mr. and Mrs. Abbott P. Usher in memory of Mrs. Usher's daughter, Annie Lawrie Fabens Crozier of the Class of 1951, who died only a few years after her graduation from Bryn Mawr. The scholarship, in the amount of \$1,250, is to be awarded to a junior or senior of distinction who is majoring in English. (1960)

The Jeanne Crawford Hislop Memorial Scholarship Fund of \$5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. This scholarship may be renewed for the senior year. (1939)

The Serena Hand Savage Memorial Scholarship was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of \$21,769 is awarded to a member of the junior class who shows great distinction of scholarship and character and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

SCHOLARSHIPS AWARDED AT THE END OF THE
SOPHOMORE YEAR AND TENABLE FOR THE
JUNIOR YEAR ONLY

The Anna Hallowell Memorial Scholarship was founded in memory of Anna Hallowell by her family. The income on a fund of \$2,585 is awarded annually to the student in need of aid who has the highest academic record. (1912)

The James E. Rhoads Memorial Junior Scholarship was founded in memory of the first President of the College, Dr.

James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The Mary E. Stevens Scholarship Fund was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of \$3,188 is awarded annually. (1897)

SCHOLARSHIPS AWARDED AT THE END OF THE
JUNIOR YEAR AND TENABLE FOR THE
SENIOR YEAR ONLY

The Anna M. Powers Memorial Scholarship was founded in memory of Anna M. Powers by a gift of \$5,000 from her daughter, Mrs. J. Campbell Harris. (1902)

The Thomas H. Powers Memorial Scholarship was founded in memory of Thomas H. Powers by bequest under the will of his daughter, Mrs. J. Campbell Harris. (1902)

SCHOLARSHIPS TENABLE IN ANY YEAR
AFTER THE FRESHMAN YEAR

The Elizabeth P. Bigelow Memorial Scholarship Fund was established by a gift of \$35,125 by Mrs. Henry B. Bigelow in memory of her daughter Elizabeth P. Bigelow who was graduated *cum laude* in 1930. (1960)

The Book Shop Scholarships are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund, which now amounts to \$15,555. (1947)

The Jacob Fussell Byrnes and Mary Byrnes Fund was founded in memory of her father and mother by a bequest of \$51,513 under the will of Esther Fussell Byrnes of the Class of 1891. By vote of the Board of Directors the income is used for annual scholarship for students in need of financial aid. (1948)

The Susan Shober Carey Award was founded in memory of Susan Shober Carey by a gift totalling \$3,200 from the Class of 1925 and is awarded annually by the President. (1931)

The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship was established by bequest of \$5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

The Class of 1903 Scholarship Fund was established by gift of \$12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

The Class of 1920 Memorial Scholarship Fund was founded in memory of classmates by the Class of 1920 from reunion gifts totalling \$2,145. The income from the fund is to be awarded annually. (1955)

The Julia Cope Collins Scholarship was established by bequest of \$10,000 from the estate of Julia Cope Collins, Class of 1889. (1959)

The Alice Perkins Coville Scholarship Fund, now totalling \$5,000, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

The Regina Katharine Crandall Scholarship was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to \$10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore, junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund of \$2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)

The Abby Slade Brayton Durfee Scholarship Fund, which now amounts to \$10,000 was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles B. Brown of the Class of 1930. Preference in awarding it is given to candidates of

English or American descent and to descendants of the Class of 1894. (1924)

The Anne Long Flanagan Scholarship was established by a gift of \$29,687 from Anne Long Flanagan of the Class of 1906 on the occasion of the 55th reunion of the class. The income on this fund is to be used to provide scholarships for Protestant students. (1961)

The William Franklin Scholarship Fund was established by a bequest of \$35,985 from the Estate of Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island. (1957)

The Katharine Hepburn Scholarship, value \$1,000, given for the year 1961-1962, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion picture, and to the cultivation of English diction and of literary appreciation. (1952)

The Katharine Houghton Hepburn Scholarship given in memory of Katharine Houghton Hepburn of the Class of 1900 is awarded for the junior or senior year to a student who has demonstrated both ability in her chosen field and independence of mind and spirit. (1957)

The George Bates Hopkins Memorial Scholarships were founded by a gift of \$10,000 from Mrs. Elizabeth Hopkins Johnson in memory of her father. Preference is given to students of Music and, in default of these, to students majoring in History, and thereafter to students in other departments. (1921)

The Evelyn Hunt Scholarships, two in number, were founded in memory of Evelyn Hunt by bequest of \$10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

The Jane Lilley Ireson Scholarship was established by a bequest of \$227,657 under the will of Jennie E. Ireson. The income on each \$5,000 of this fund is to be awarded as a scholarship to a worthy student who may require financial assistance. (1959)

The Misses Kirk Scholarship Fund, now amounting to \$1,375, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)

The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund, now amounting to \$17,930, was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920)

The Mary Anna Longstreth Memorial Scholarship, established by a gift of \$5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

The Lorenz-Showers Scholarship Fund of \$3,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

The Evelyn Flower Morris Cope and Jacqueline Pascal Morris Evans Scholarship Fund, amounting to \$10,000, was established by members of their families in memory of Evelyn Flower Morris of the Class of 1903 and Jacqueline Pascal Morris of the Class of 1908. (1959)

The Jean Brunn Mungall 1944 Memorial Fund was established by the Class of 1944. The income is to be used for scholarships. (1955)

The Mary McLean and Ellen A. Murter Memorial Fund, now amounting to \$14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

The Frank L. Neall and Mina W. Neall Scholarship Fund was established by a legacy of \$25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College. (1957)

The Mary Frances Nunns Scholarship was established by a bequest of \$25,000 under the will of Mary Frances Nunns. The income only is to be used. (1960)

The Florence Morse Palmer Scholarship was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer of the Class of 1924, by gifts now totalling \$10,000. (1954)

The Anna and Ethel Powers Memorial Scholarship was established by a gift of \$1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. The fund is now re-established at \$2,200 in memory of both Anna Powers and her sister, Mrs. Hough (Ethel Powers) by Nancy Hough Smith. (1919, 1958)

The Amelia Richards Scholarship was founded in memory of Amelia Richards of the Class of 1918 by bequest of \$10,000 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

The Maximilian and Reba E. Richter Scholarship Fund was established by a bequest of \$50,000 in the will of Max Richter, father of Helen Richter Elser of the Class of 1913. The income from this fund is to be used to provide assistance for one or more students in the obtaining of either an academic or professional degree. The fund shall be administered on a non-sectarian basis to such applicants as are deemed worthy by habits of character and scholarship. No promises of repayment shall be exacted but it is hoped that students so benefited will desire when possible to contribute to the fund in order that similar aid may be extended to others. Such students shall be selected from among the graduates of public high schools of public colleges in the City of New York. (1961)

The Mary Williams Sherman Memorial Scholarship Fund, now amounting to \$4,152, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

The Shippen Huidekoper Scholarship Fund of \$5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

The Anna Margaret Sloan and Mary Sloan Scholarships were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of \$16,858 is awarded annually to students majoring in Philosophy or Psychology. (1942)

The Cordelia Clark Sowden Scholarship Fund was established by a bequest of \$15,000 from the Estate of Helen C. Sowden. The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award. (1957)

The Summerfield Foundation Scholarship was established by a gift from the Solon E. Summerfield Foundation. The income from this fund, which now totals \$4,000, is to be used to assist able students who need financial help to continue their studies. (1958)

The Mary Hamilton Swindler Scholarship was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling \$6,630. The income from this fund is used for a scholarship for the study of Archaeology at Bryn Mawr College. (1950)

The Elizabeth P. Taylor Scholarship Fund was established by a bequest of \$10,000 from Elizabeth P. Taylor of the Class of 1921. (1961)

The Elizabeth Wilson White Memorial Scholarship was founded in memory of Elizabeth Wilson White by a gift of \$7,500 by Thomas Raeburn White. It is awarded annually by the President. (1923)

The Mary R. G. Williams Scholarship Fund was established from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund will be used for emergency grants for students who are paying their own way through college. (1957)

The Mary Peabody Williamson Scholarship was founded by bequest of \$1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

The Mrs. James D. Winsor Memorial Scholarship was established by a bequest of \$10,000 in the will of Mary Winsor, in memory of her mother. The income on this fund is to be used for a Negro student with the right of residence in the College. (1960)

The Mary Winsor Scholarship in Archaeology was established by a bequest of \$3,000 under the will of Mary Winsor. The income only to be used. (1960)

The Lila M. Wright Memorial Scholarship was founded in memory of Lila M. Wright by gifts totalling \$2,987 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

The Georgie W. Yeatman Scholarship was founded by bequest of \$1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

Prizes

The following scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic merit.

The Bryn Mawr European Fellowship, value \$1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an *Elizabeth S. Shippen Scholarship for Foreign Study*.

The Maria L. Eastman Brooke Hall Memorial Scholarship was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling \$3,000 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

The Charles S. Hinchman Memorial Scholarship was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of \$12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

The Sheelah Kilroy Memorial Scholarships in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of \$5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)

The Elizabeth S. Shippen Scholarships were founded by two bequests of \$5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. *The Shippen Scholarship in Science*, to a student whose major subject is Biology, Chemistry, Geology or Physics; 2. *The Shippen Scholarship in Foreign Languages*, to one whose major subject is French, German, Greek, Italian, Latin, Russian

or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. *The Shippen Scholarship for Foreign Study* (See European Fellowship, page 131). (1915)

The Elizabeth Duane Gillespie Fund for Scholarships in American History was founded by a gift of \$1,500 from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American History, a second to a student doing advanced work in American History for an essay written in connection with that work. The income from this Fund has been supplemented since 1955 by an annual gift from the Society. (1903).

The Helen Taft Manning Essay Prize in History was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of \$2,600 is to be awarded as the Department of History may determine. (1957)

The Academy of American Poets Poetry Prize of \$100 has been awarded each year for five years to the student who submits to the Department of English the best poem or group of poems. The Award, given by the Academy of American Poets, was first made in 1957 and renewed for five years in 1961.

The Bain-Swiggett Poetry Prize was established by a gift of \$1,000 from Mr. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the Faculty on the basis of work submitted. The income only is to be used. (1958)

The Hester Ann Corner Prize for distinction in literature was established in memory of Hester Ann Corner of the Class of 1942 by gifts totalling \$2,125 from her classmates and friends. The award is made annually to a junior or senior on the recommendation of a committee composed of the chairmen of the Departments of English and of classical and modern foreign languages. Awarded in 1959. (1950)

The Katherine Fullerton Gerould Memorial Prize was founded by a gift of \$1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-1910. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

The M. Carey Thomas Essay Prize is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

The Charlotte Angas Scott Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in memory of Charlotte Angas Scott, Professor of Mathematics and a member of the faculty of Bryn Mawr College from 1885-1924. The income only from this gift is to be used. (1961)

The Anna Pell Wheeler Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in honor of Anna Pell Wheeler, Professor Emeritus of Mathematics and a member of the faculty of Bryn Mawr College from 1918-1948. The income only from this gift is to be used. (1961)

The Jeanne Quistgaard Memorial Prize was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of \$498 may be awarded every two years to a student in Economics. Awarded in 1959. (1938)

The Esther Walker Award was founded by the bequest of \$1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15 preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

The Linda B. Lange Fund was founded by bequest of \$30,000 under the will of Linda B. Lange of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

The Hannah E. Longshore Memorial Medical Scholarship was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of \$10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school and may be renewed for each year of medical study. (1921)

The Jane V. Myers Memorial Medical Scholarship Fund of \$10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Harriet Judd Sartain Memorial Scholarship Fund was founded by bequest of \$21,013 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

Loan Funds and Student Employment

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

The committee in administering this money follows a definite policy designed to serve the best interests of the students concerned. Loans may be used for any purpose approved by the committee, but not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1,500. Students who wish loans may obtain from the Dean or the Alumnae Office, on the second floor of the Deanery, the necessary blanks, which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work. Applications, except in cases of emergency, must be filed before September 10. Approximately a month is required for action on applications.

While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires; after the student leaves college, the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae Association, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945, by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be followed in awarding such loans: a. to students coming from New Jersey, b. to students coming from Missouri, c. to students coming from any other location who have had not less than one year residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a committee appointed by her from time to time.

3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

4. These loans shall be used primarily to enable the exceptional student to continue her studies, which otherwise would be prevented through lack of means.

5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

STUDENT EMPLOYMENT

Students may obtain employment such as clerical and library work, typing, reading aloud, child care and waiting on table through the Bureau of Recommendations, Taylor Hall. In conducting this Bureau, the College offers an employment service for permanent, temporary and part-time positions to its alumnae and former students as well as to those in college. It also offers to students a vocational service, which includes vocational tests and assistance in choosing a vocation. Students registering with the Bureau will be informed of openings in the kind of work they have requested.

The Bureau also acts as a clearing house for letters of recommendation for its registrants; these letters will be sent upon request, to prospective employers and other agencies for summer work for undergraduates or for full or part-time employment for alumnae and former students.

Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in the Library.

Alumnae Representatives

All Alumnae officers and representatives will be glad to give general information about the College.

Specific questions in regard to admissions or scholarships should be directed to the Office of Admissions, Bryn Mawr College, Bryn Mawr, Pa.

Officers of the Alumnae Association

President, Mrs. W. Nelson West, III, 141 Grays Lane, Haverford, Pa.

First Vice-President, Mrs. Peter P. Rodman, Box 441, Harford County, Aberdeen, Md.

Second Vice-President, Mrs. Jacob J. Kohlhas, 46 Tunbridge Road, Haverford, Pa.

Recording Secretary, Mrs. Alan Crawford, Jr., White Horse Road, Devon, Pa.

Corresponding Secretary, Mrs. Alexander B. Adams, 22 Newtown Turnpike, Westport, Conn.

Treasurer, Mrs. J. Stinson Scott, 1120 Indian Creek Road, Philadelphia 31, Pa.

Chairman, Alumnae Fund, Mrs. Thomas S. Horrocks, 151 Booth Lane, Haverford, Pa.

Chairman, Scholarship and Loan Committee, Mrs. George Vaux, Caversham Road, Bryn Mawr, Pa.

Editor, The Alumnae Bulletin, Mrs. Arthur M. Sherwood, 19 Cleveland Lane, Princeton, N. J.

Alumnae Secretary, Miss Margery B. Peterson, The Deanery, Bryn Mawr, Pa.

Executive Secretary, Alumnae Fund, Miss Ellenor Morris, Braefield, Chester Springs, Pa.

Alumnae Directors of Bryn Mawr College

Mrs. Willard N. Boyden, 1255 North Green Bay Road, Lake Forest, Ill.

Mrs. G. Howland Chase, 1901 24th Street, N.W., Washington 8, D. C.

Miss Barbara Colbron, The Spence School, 22 East 91st Street, New York 28, N. Y.

Mrs. Henry J. Mali, 27 East 69th Street, New York 21, N. Y.

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District III: Maryland, District of Columbia, Virginia, North and South Carolina, Georgia, Alabama, Florida, Louisiana, Mississippi, Tennessee, Kentucky

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Mrs. Francis L. Kenney, Jr., 8011 Davis Drive, St. Louis 5, Mo.

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Dothan Mrs. David Wilson, 101 Glenwood Road

ARIZONA

Tucson Mrs. Thacher Loring, Route 2, Box 774-R

ARKANSAS

Hot Springs Mrs. James H. Chesnutt, Route 5, Box 98

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Northern California

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23 Maple Avenue

San Francisco Mrs. Milton Marks, Jr., 1324 Lake Street, 18
Sausalito Mrs. Peter Sloss, 37 Glen Court

Southern California

Encino Mrs. Eugene F. Brown,
4138 Valley Meadow Road

Los Angeles Mrs. Michel F. Amestoy, II,
3330 Club Drive, 64

North Hollywood

Miss Margaret Gregson,
11150 Agua Vista Street

COLORADO

Denver Mrs. Herbert S. Gaskill, 250 Ash Street
Westminster Mrs. Duane R. Berry, 3766 Shaw Boulevard

CONNECTICUT

Hartford Miss Hilda W. Smith, 3 Columbia Street
Stamford Mrs. Booth Hemingway,
353 Old Long Ridge Road

West Hartford Mrs. Edmond LaB. Cherbonnier,
843 Prospect Avenue, 7

Westport Mrs. Alexander B. Adams,
22 Newtown Turnpike

Woodbridge Mrs. I. Gordon Colby, Round Hill Road, 15

DELAWARE

Wilmington Mrs. William Cashel, 2606 Longwood Drive, 3
Mrs. Richard L. Jones, 11 Harlech Drive, 7

DISTRICT OF COLUMBIA

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 1901 24th Street, N.W., 8
 The Hon. Mrs. E. W. C. Russell,
 2601 Foxhall Road, N.W., 7

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 Miami Mrs. Dexter French,
 4990 Hammock Lake Drive

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 1284 Fairview Road, N.E., 6
 Augusta Mrs. Landon Thomas, 2226 Pickens Road

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Moscow Mrs. William St. Clair Greever,
 315 South Hayes Street

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 Lake Forest Mrs. Willard N. Boyden,
 1255 North Green Bay Road
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INDIANA

Indianapolis Mrs. Philip B. Reed,
 4131 North Meridian Street
 New Augusta Mrs. Harley W. Rhodehamel, Jr.,
 Route 1, Box 257

IOWA

Bettendorf Mrs. Thomas Bates, 1312 Middle Road
 Iowa City Mrs. Curt A. Zimansky, 1412 East Court Street

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Wichita Mrs. Cecil A. Clarke, 298 Patton Drive, 8
 Mrs. James B. Sealey,
 1515 South Ridgewood, 18

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Lexington Mrs. A. Thornton Scott,
 2355 Harrodsburgh Road, R.R. No. 2
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 4709 Brownsboro Road, 7
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Miss Clare C. Hardy, 117 Bellemore Road, 10

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10 Larchwood Drive, 38

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516 Sheldon Road, 36

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- Minneapolis Mrs. Clarence M. Hardenbergh,
66 Groveland Terrace, 5
- Mrs. Lyndon M. King,
1941 Penn Avenue South, 5
- Mrs. Courtland Y. White,
2315 Irving Avenue South, 5

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901 E. Vivion Road, 18
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- St. Louis Mrs. Frank Block, 9721 Litzsinger Road, 24
Mrs. Frances L. Kenney, Jr.,
8011 Davis Drive, 5
- Mrs. Peter Schmitz,
6120 McPherson Avenue, 12

MONTANA

- Bozeman Mrs. Charles C. Bradley,
1105 South Tracy Avenue

NEBRASKA

- Omaha Miss Marie C. Dixon, 621 South 37th Street

NEW HAMPSHIRE

Keene Mrs. N. Michael Plaut, Peg Shop Road
 Nashua Miss Anna Stearns, 37 Orange Street

NEW JERSEY

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 Princeton Mrs. Edward F. D'Arms, 940 Kingston Road
 Mrs. Douglas Delanoy, 62 Battle Road
 Miss Lucy T. Shoe,
 Institute for Advanced Study
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 Upper Montclair Mrs. Fitzhugh W. Boggs, 75 Edgemont Road

NEW MEXICO

Espanola Mrs. Henry L. Laquer, Pajarito, Route 1
 Santa Fe Mrs. Wheaton Augur, P.O. Box 884

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 Hamilton Mrs. Everett N. Case, Colgate University
 Long Island Mrs. Charles B. Brown,
 11 North Drive, Plandome
 Mrs. John E. Gillick,
 204 Lexington Street, Westbury
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 352 Loudonville Road

New York City

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 Mrs. John D. Gordan, Jr.,
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 Mrs. Roger Starr, 1 Gracie Square, 28
 Pittsford Mrs. Frederick C. Schwartz, 10 Reitz Parkway
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 1691 Van Antwerp Road, 9

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Durham Mrs. MacDonald Dick, 3005 Norwich Way
 Mrs. D. St. Pierre DuBose, Box 310

OHIO

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1 Rawson Woods Circle, 20
Mrs. Lee S. Rosenberg, 701 Betula Avenue, 29
Cleveland Mrs. Kenyon C. Bolton, 2700 Eaton Road, 18
Columbus Mrs. Onno Buss, 1429 Broadview Avenue, 12
Mrs. James O. Seymour, 26 Sessions Drive, 9
Toledo Mrs. Ward M. Canaday,
4455 Brookside Road, 6

OKLAHOMA

- Oklahoma City Mrs. William T. Thach,
701 Northeast 50th Street, 5
Tulsa Mrs. J. Bertis Terrell,
1922 South Xanthus Street, 4

OREGON

- Portland Mrs. Roger A. Bachman,
4436 S.W. Warrens Way, 1
Mrs. Robert L. Beebe,
2625 S.W. Patton Road, 1

PENNSYLVANIA

- Bryn Mawr Mrs. N. Ramsay Pennypacker, 915 Sorrel Lane
Devon Mrs. Alan Crawford, Jr., White Horse Road
Haverford Mrs. Theodore Hetzel, 768 College Avenue
Mrs. Thomas S. Horrocks, 151 Booth Lane
Mrs. Jacob J. Kohlhas, 46 Tunbridge Road
Mrs. W. Nelson West, III, 141 Grays Lane
Philadelphia Mrs. J. Ebert Butterworth,
8525 Ardmore Avenue, 18
Mrs. Ernest C. Savage, East Gravers Lane, 18
Mrs. J. Stinson Scott,
1120 Indian Creek Road, 31
Pittsburgh Mrs. Francis J. Stokes, 1009 Westview, 19
Mrs. Theodore L. Hazlett, Jr.,
114 Fairway Lane, 38
Mrs. Herbert F. Minter,
2047 Frankella Street, 21
Wallingford Mrs. Morgan Vining, 328 Plush Mill Road
Whitemarsh Mrs. C. Jared Ingersoll, 130 Skippack Pike

RHODE ISLAND

- Barrington Mrs. Frederick W. Thomas, II,
163 Mathewson Road

RHODE ISLAND (cont'd)

Providence Miss Helen C. Robertson,
50 Stimson Avenue, 6

SOUTH CAROLINA

Charleston Mrs. C. Smith Toms, 69 Church Street, 1

TENNESSEE

Chattanooga Mrs. Glenn R. Kleinau,
2006 McCallie Avenue, 4

Nashville Miss Martha J. Lindsay, 4302 Estes Avenue, 12

TEXAS

Dallas Mrs. Geoffrey S. Warren, 5014 Waneta Drive, 9

Dickinson Mrs. Joseph Mares

El Paso Miss Mary Simpson Goggin,
1398 West Borderland Road

Houston Mrs. W. Grant Lewis, 4025 Piping Rock, 27

UTAH

Salt Lake City Mrs. Philip B. Price, 1266 4th Avenue, 3

VERMONT

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VIRGINIA

Richmond Mrs. Wyndham Bolling Blanton,
3015 Seminary Avenue, 27
Miss Jean G. Wright, 39 Old Mill Road, 26

WASHINGTON

Bellevue Mrs. Donald T. Hall, 3655 Hunts Point Road

Seattle Mrs. Benjamin F. Hager, 3348 East Terrace, 22

Tacoma Mrs. Samuel H. Brown,
11604 Interlaken Drive, S.W. 99

WISCONSIN

Madison Mrs. Moses S. Slaughter,
633 North Francis Street, 3

Milwaukee Mrs. Verne Ross Read, Jr.,
3533 North Shepard Avenue, 11

WYOMING

Laramie Mrs. John David Love, 309 South 11th Street

PUERTO RICO
San Juan Mrs. Manuel Gomez-Meltz,
Box 5155, Puerta de Tierra

FOREIGN COUNTRIES

ARGENTINA Miss Ana Maria Barrenechea,
Instituto de Filologia Hispanica, Universidad
de Buenos Aires, Reconquista 572,
Buenos Aires

CANADA Mrs. Ronald Dick,
245 Glenrose Avenue, Toronto
Mrs. David B. Morgan-Grenville,
4988 Grosvenor Avenue, Montreal, 6

CHINA Mrs. Walter C. Janney, Jr.,
c/o UNRO-801 Bank of East Asia Bldg.,
Hong Kong, B.C.C.

DENMARK Mrs. Harald Vestergaard,
Ornekulsvej 11, Charlottenlund

ENGLAND Mrs. James A. Cochrane, Woodmans Green
Farm, Linch, near Liphook, Hampshire
Mrs. Stanley Harper,
37 Clifford Road, London, S.E. 25
Mrs. Webster Plass,
c/o British Museum, London, W.C. 2

EGYPT Mrs. Rushti Said,
The American University, Cairo

FRANCE Mme Jean Maheu,
66 rue de Vaugirard, Paris VI
Mrs. Stanislas Mangin,
47 rue de Bellechasse, Paris VII

GERMANY Mrs. Hans Loening, Fischerhude Bei Bremen

GREECE Miss Elizabeth Douli,
Korae 18, Nea Smyrne, Athens

HOLLAND Miss M. Sigrid de Vogel,
90 Ruychroklaan, The Hague

INDIA	Miss Harsimran Malik, c/o Lady T. S. Malik, 47-B Friends Colony, Mathure Road, New Delhi Mrs. Kalyani Raghavan, 4-B Pandara Road, New Delhi
ITALY	Mrs. Enrico Berra, Piazzale Biancomanis 2, Milan
JAPAN	Miss Taki Fujita, No. 10 Uenohara, Nakano, Tokyo Miss Ai Hoshino, 10 Uenohara-machi, Nakano-ku, Tokyo
MEXICO	Mrs. Arturo Gomez, Liverpool 149-102, Mexico City
NETHERLANDS WEST INDIES	Mrs. E. A. Eriksen, Box 447, Seroe Colorado, Aruba
NORWAY	Mrs. Harald Sommerfeldt, Hoffsveien 18, Skoyen, Oslo
PHILIPPINE ISLANDS	Mrs. Marcial P. Reyes, Jr., 14 Ilagen Street, San Francisco del Monte, Quezon City
TURKEY	Miss Suna Kili, Koybasi Caddes No. 295, Yenikoy, Istanbul
VENEZUELA	Mrs. Oscar Schnell, Apartado 69, Caracas

Academic Schedule

1961-1962

1961

FIRST SEMESTER

- September 21.* Halls of residence open to entering class at 8 A.M.
Registration of entering undergraduate students
Graduate Center opens to resident students
Registration period for graduate students begins
Deferred, condition, auditors' examinations begin
- September 23.* Deferred, condition, auditors' examinations end
- September 24.* Halls of residence open to all returning undergraduate students at 8 P.M.
- September 25.* Registration of returning undergraduate students with Comptroller's Office
- September 26.* Work of the 77th academic year begins at 9 A.M.
- September 28.* Registration period for graduate students ends
Hygiene exemption examination for Freshman at 7:30 P.M.
- October 14.* French examinations for undergraduates, M.A. and Ph.D. candidates
- October 21.* Spanish and Italian examinations for undergraduates, M.A. and Ph.D. candidates
Statistics examinations for M.A. candidates
- October 28.* German examinations for undergraduates, M.A. and Ph.D. candidates
- November 4.* Russian examinations for undergraduates, M.A. and Ph.D. candidates
Greek and Latin examinations for undergraduates
- November 8.* Hygiene examination at 7:30 P.M.
- November 22.* Thanksgiving holiday begins after last class
- November 27.* Thanksgiving holiday ends at 9 A.M.
- December 15.* Christmas vacation begins at 12:45 P.M.

1962

- January 4.* Christmas vacation ends at 9 A.M.

- January* 6. French examinations for Seniors conditioned, M.A. and Ph.D. candidates
- January* 13. Spanish and Italian examinations for Seniors conditioned, M.A. and Ph.D. candidates
Statistics examinations for M.A. candidates
- January* 19. Last day of lectures
- January* 20. German examinations for Seniors conditioned, M.A. and Ph.D. candidates
- January* 22. Collegiate examinations begin
- January* 27. Russian examinations for Seniors conditioned, M.A. and Ph.D. candidates
Greek and Latin examinations for Seniors conditioned
- January* 31. Registration period for graduate students begins
- February* 1. Collegiate examinations end

SECOND SEMESTER

- February* 5. Work of the second semester begins at 9 A.M.
- February* 7. Registration period for graduate students ends
- March* 23. Spring vacation begins after last class
- April* 2. Spring vacation ends at 9 A.M.
Deferred examinations begin
- April* 7. French examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1963
Deferred examinations end
- April* 14. Spanish and Italian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1963
Statistics examinations for M.A. candidates for 1963
- April* 28. German examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1963
- May* 4-6. Geology field trip
- May* 12. Russian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1963
Greek and Latin examinations for undergraduates
- May* 18. Last day of lectures
- May* 21. Collegiate examinations begin
- June* 1. Collegiate examinations end
- June* 5. Conferring of degrees and close of the 77th year
- June* 9. Alumnae Day

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Directions to Bryn Mawr

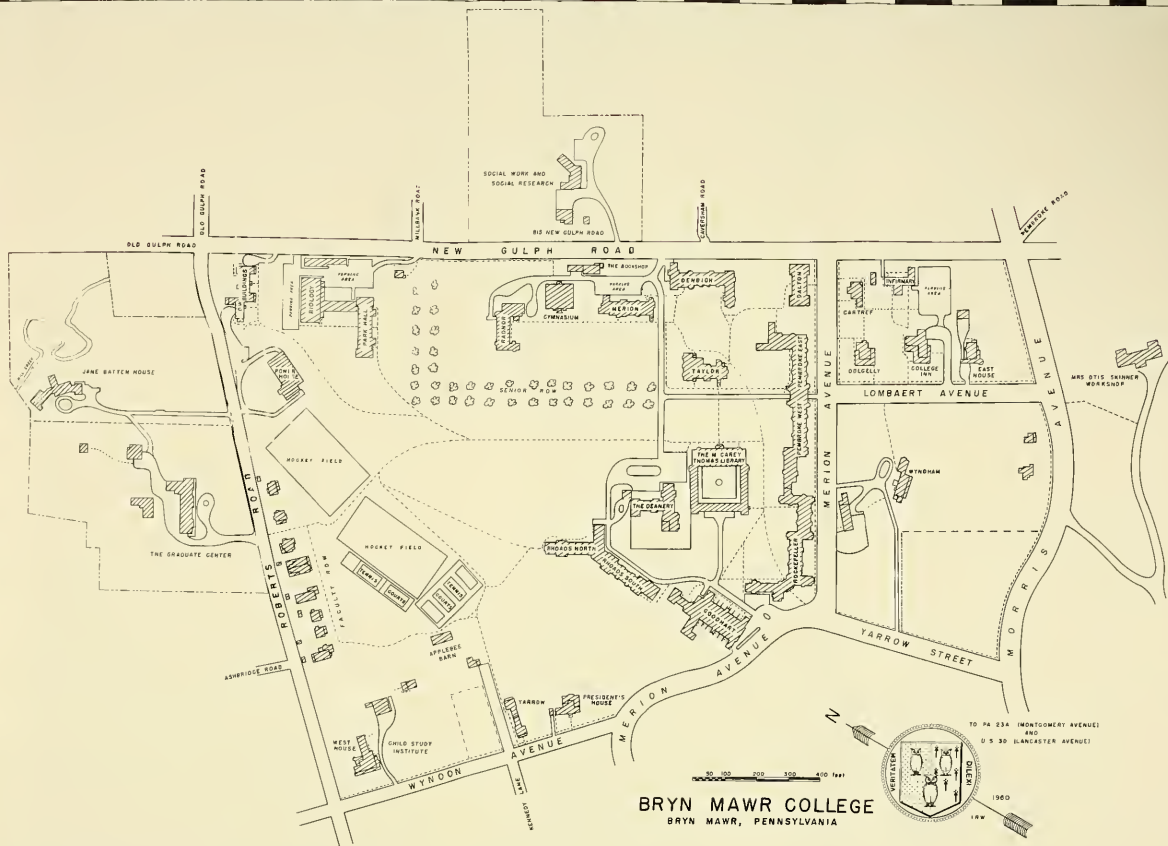
Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

By automobile: From the east or west take U.S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues.

By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

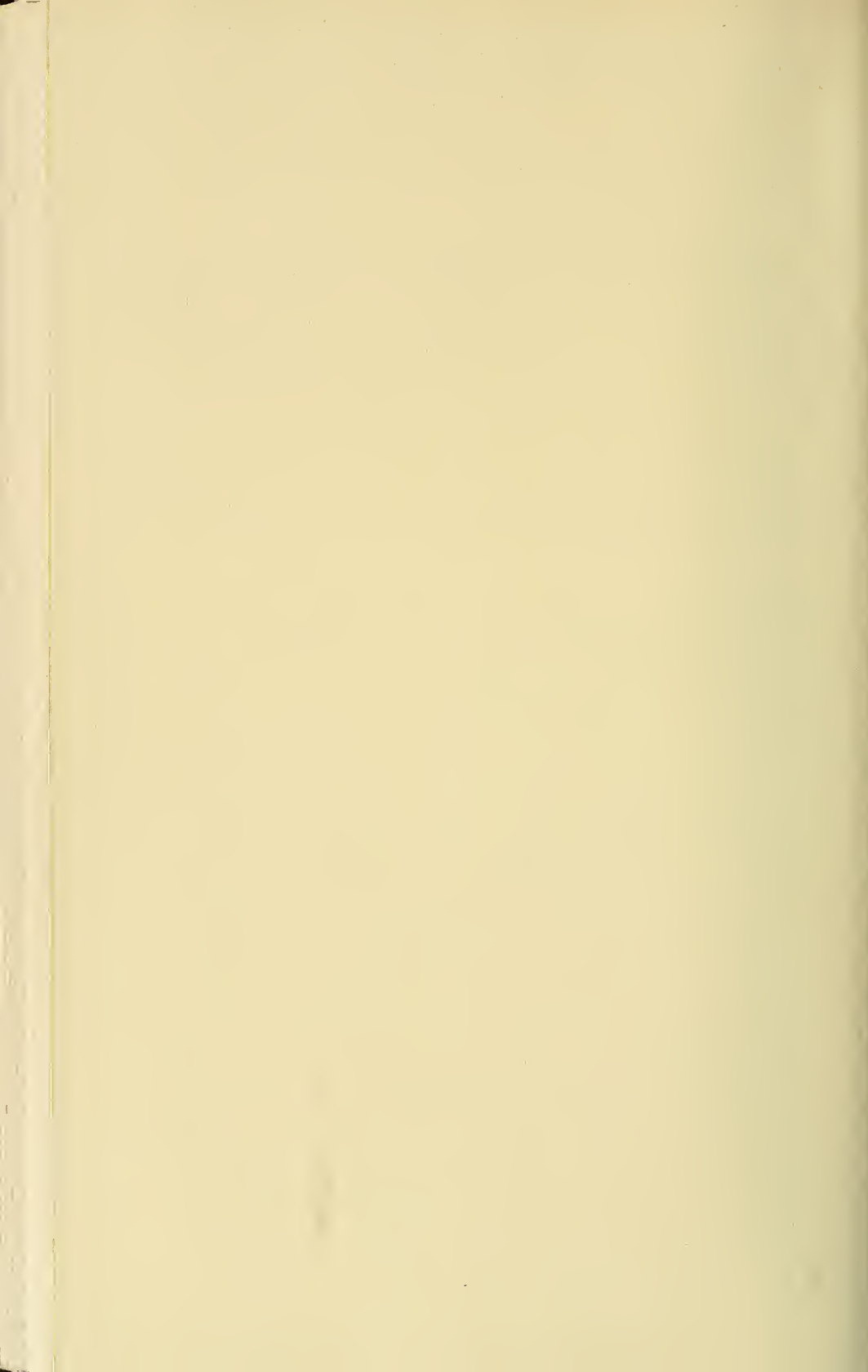




BRYN MAWR

UNDERGRADUATE COURSES

THE GRADUATE
DEPARTMENT OF
SOCIAL WORK AND
SOCIAL RESEARCH
BRYN MAWR COLLEGE







Bulletin of the
Carola Woerishoffer
Graduate Department of
SOCIAL WORK
and
SOCIAL RESEARCH
of Bryn Mawr College
1963-1965

815 New Gulph Road
BRYN MAWR, PENNSYLVANIA

Correspondence regarding admission to the Graduate Department of Social Work and Social Research should be addressed to the Director of the Department, 815 New Gulph Road, Bryn Mawr College, Bryn Mawr, Pennsylvania.

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The Carola Woerishoffer Graduate Department of Social Work and Social Research offers professional education for practice in social work and for research. The basic two-year program leads to the degree of Master of Social Service, the advanced program to the degree of Doctor of Philosophy. In general, the program of the Department is intended for full-time study, but a few courses are open on a part-time basis to holders of a Master's degree in social work or its equivalent.

The curriculum of the Department is based upon the premise that preparation for social work requires a basic core of knowledge as well as skill in the application of this knowledge. A coordinated program of concurrent courses and field instruction is therefore provided in the Master's degree program. The Ph.D. program is planned to broaden the student's knowledge of social welfare in general, and, through intensive research, to deepen his knowledge in one field in particular.

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ANGELA JOHNSTON BOYDEN

Alumnae Director, 1959-1964

KATHARINE STRAUSS MALI

Alumnae Director, 1960-1965

MARY HALE CHASE

Alumnae Director, 1961-1966

ELIZABETH CURRAN WARREN

Alumnae Director, 1962-1967

EDITH HARRIS WEST, *by invitation*

President of Alumnae Association

Advisory Committee for The Department of Social Work and Social Research

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CHARLES P. CELLA, JR.
H. FRANCIS DE LONE
J. GREY EMMONS
MRS. ALBERT M. GREENFIELD
THOMAS B. HARVEY
MRS. P. BRACKLEY HEPBURN
DR. JOHANNES HOEBER
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MRS. ROBERT M. WOODBURY
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MRS. KATHERINE D. K. LOWER
MISS ELLENOR MORRIS
MRS. FRANCIS L. PELL
GOETZ MAYER

Committees of the Faculty for the Graduate School

The Graduate Committee

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Chairman

DEAN BLISS, *Vice-Chairman*

MISS MARTI

MR. BERRY

MR. BITTERMAN

MR. SPRAGUE

MR. MITCHELL

MR. SCHNEIDER

The Graduate Scholarships Committee

DEAN BLISS, *Chairman*

PRESIDENT MCBRIDE, *ex-officio*

MR. LEBLANC

MR. KLINE (Semester II)

MR. CONNER

MR. SCHMIDT (Semester I)

Officers of the College

President of the College:

KATHARINE ELIZABETH McBRIDE, PH.D., LL.D., L.H.D., Sc.D.

Office: Taylor Hall.

Dean of the Graduate School: ELEANOR A. BLISS, Sc.D.

Office: The Library.

Director, Graduate Department of Social Work and Social Research:

KATHERINE D. K. LOWER, PH.D.

Office: 815 New Gulph Road.

College Physician: ELIZABETH HUMESTON, M.D.

Office: The Infirmary.

Director of Halls and Head Warden:

CHARLOTTE BRANDON HOWE, M.A.

Office: Rockefeller Hall.

Librarian: JANET MARGARET AGNEW, B.L.S., M.A.

Office: The Library.

Faculty and Teaching Staff

CAROLA WOERISHOFFER GRADUATE DEPARTMENT of SOCIAL WORK AND SOCIAL RESEARCH

KATHERINE D. K. LOWER, PH.D., *Professor of Social Work and Social Research and Director of the Department*

BERNARD ROSS, M.S.S.A., PH.D., *Professor of Social Work and Social Research*

LOUIS GOLDSTEIN, PH.D., *Associate Professor of Social Work and Social Research*

JEAN HARING, M.S.W., *Associate Professor of Social Work and Social Research*

HERTHA KRAUS, PH.D., *Carola Woerishoffer Associate Professor of Social Work and Social Research¹*

PHILIP LICHTENBERG, PH.D., *Associate Professor of Social Research*

EDMUND V. MECH, M.S.S., PH.D., *Associate Professor of Social Work and Social Research*

JEANNE POLLOCK, M.S.W., *Associate Professor of Social Work and Social Research*

MARTIN REIN, M.S.S.W., PH.D., *Associate Professor of Social Work and Social Research*

ROSE SEGAL, M.S., *Associate Professor of Social Work and Social Research*

¹ On sabbatical leave for the year, 1962-1963.

JANE C. KRONICK, PH.D., *Assistant Professor of Social Research*

WILLIAM W. VOSBURGH, PH.D., *Assistant Professor of Social Research*

PATRICIA R. MILLAR, M.S.S., *Instructor in Social Work*

RUTH O. STALLFORT, M.S., *Field Instruction Consultant*

DULCINE S. CHAPIN, M.S.S., *Field Instruction Consultant*

ELIZABETH L. PINNER, M.S.S., *Teaching Assistant*

RACHEL D. COX, PH.D., *Professor of Education and Psychology*

EUGENE V. SCHNEIDER, PH.D., *Associate Professor of Sociology*

ETHEL W. MAW, PH.D., *Assistant Professor of Education*

ELSIE S. BARTHOLOMEW, PH.D., *Special Lecturer in Social Research*

O. EUGENE BAUM, M.D., *Special Lecturer in Psychiatric Information*

ROBERT J. GAUKLER, M.D., *Special Lecturer in Psychiatric Information*

WALTER C. KLINGENSMITH, M.D., *Special Lecturer in Medical
Information*

JACK B. KREMENS, M.D., *Special Lecturer in Psychiatric Information*

RALPH ORMSBY, M.S.S.A., *Special Lecturer in Social Administration*

ROBERT C. PRALL, M.D., *Special Lecturer in Psychiatric Information*

RICHARD UHLIG, M.S.W., *Special Lecturer in Community Welfare
Research*

History of the Department

The Department was opened in the fall of 1915 in memory of Carola Woerishoffer, a graduate of Bryn Mawr College, who had devoted her brief life to improving social and working conditions and who, by her bequest to the College, made possible the introduction of new teaching and research in social welfare. The Department was first called the Carola Woerishoffer Graduate Department of Social Economy and Social Research. In 1957 the name was changed to the Carola Woerishoffer Graduate Department of Social Work and Social Research.

Under the first Director, Dr. Susan M. Kingsbury, four fields of study were initially offered — Social Casework, Community Organization, Industrial Relations, and Social and Industrial Investigation. As the curriculum became more specifically focussed on education for social work, certain fields of study, including Labor Economics, Sociology and Anthropology, were transferred to other departments of the College.

The program leading to the Ph.D. degree was developed with the founding of the Department in 1915. In response to the growing recognition of social work as a profession, the degree of Master of Social Service was substituted in 1947 for the Professional Certificate which had been granted up to this time to two-year students.

Men have been admitted to the Graduate Department of Social Work and School Research since 1939, shortly after the Graduate School was opened to men.

The Department, a charter member of the American Association of Schools of Social Work, is a constituent member of the Council on Social Work Education and an accredited graduate school of social work. In 1944 the Department was approved to offer a concentration in medical social work and, in 1954, in psychiatric social work. Since 1958 the Department has offered a concentration in community organization.

In 1958 a grant from the Dolfinger-McMahon Foundation established a research center for the purpose of bringing the techniques of the research scientist to the study of basic problems in social work.

In the same year, the Department moved into its present headquarters at 815 New Gulph Road, the property opposite Merion Gate. The building includes a lecture hall, seminar and conference rooms, offices, a library and the research center.

Admission

THE GRADUATE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH at Bryn Mawr College is open to qualified graduates in liberal arts from colleges or universities of acknowledged standing. Application for admission, to be made to the Director of the Department, should be accompanied by a copy of the student's full academic record.¹ Letters from the Dean and from two or more professors of the applicant's undergraduate college are required and will be requested by the Department.

A personal interview is arranged with a member of the faculty of the Department or with an appropriate person near the residence of an applicant living a considerable distance from Bryn Mawr. The Department may, at its discretion, require students whose preparation is insufficient to pursue certain introductory courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the requirements may, on application to the Graduate Committee, be enrolled as candidates for the degrees of Master of Social Service or Doctor of Philosophy.

Men as well as women are admitted to the Graduate School and are accepted as candidates for the degrees of Master of Social Service and Doctor of Philosophy.

Within ten days after official notice of admission to the Department of Social Work and Social Research, the enrollment or admission fee of \$20 is to be paid to the Comptroller of Bryn Mawr College. If the student withdraws before June 15th, half the fee, namely \$10, will be refunded.

¹ Submission of the Miller Analogies Test is required as supplementary evidence of qualifications. The student will be given instructions concerning the test after his application has been received by the Department.

TRANSFER CREDIT

Transfer credit, amounting to one year of the program for the M.S.S., may be allowed for work done at other accredited schools. Such transfer credit will not be given until the candidate has completed a semester's work at Bryn Mawr. In each case transfer credit must be recommended by the Department.

For the Ph.D. degree, candidates must be in residence in the Graduate School at Bryn Mawr at least two years (or one year for Bryn Mawr graduates). Part of the work for the Ph.D. may be done at other institutions.

RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. Students considering enrollment at the University should note that the academic year begins earlier than at Bryn Mawr. The University charges a small general fee for the use of the Library, a \$5.00 library deposit, which is refundable, and fees for lateness. Students who plan to take a course at the University should complete their Bryn Mawr registration and obtain their letters of introduction promptly.

Programs and Degrees

BRYN MAWR COLLEGE awards the degrees of Master of Social Service and Doctor of Philosophy in the Department of Social Work and Social Research.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Casework, Community Organization and Research. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in Social Casework, provision is made for concentration in the following fields: Child Welfare, Family Welfare, Medical and Psychiatric Social Work. In Community Organization preparation is provided for Community Welfare Planning, Neighborhood Organization, Urban Renewal, Intergroup Relations, and Community Welfare Research. At the discretion of the faculty, a few second-year students will be allowed to concentrate in Social Work Research.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from a college or university of recognized standing in the United States, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences or the humanities with some work in the social sciences is usually required, although in exceptional cases this requirement may be waived. There are no language requirements for the M.S.S. degree. All first-year M.S.S. students must pass an examination in statistical concepts given at the end of the non-credit course, Introduction to Statistical Concepts.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework, or community organization as the principal course in social work practice. The first-year courses are:

Social Welfare Policy and Services I and II
Human Growth and Behavior I and II
Community Organization I
Social Research
Social Casework I
Social Casework II or Community Organization II
Introduction to Statistical Concepts (non-credit)
Field Instruction

The courses in the second year are in part determined by the principal area of practice of the student:

Social and Cultural Concepts in Social Work Practice
Social Agency Administration
Social Issues and Social Policy
Psychanalytic Concepts in Social Work Practice
Social Group Work
Community Welfare Research
Community Organization III and IV
Social Casework III and IV
Field Instruction
Thesis Seminar

Requirements for Degree. Candidates for the degree of Master of Social Service must have completed the two-year program of study consisting of a minimum of eighteen semester courses or the equivalent in full-year courses including field instruction; they must prepare a Master's paper and pass a final examination which tests the ability to place their special fields in the general background of social work.

SPECIAL PART-TIME PROGRAM

It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The candidate for the Doctor of Philosophy degree should have ability of a high order, intellectual curiosity and critical judgment, independence, a broad general education, a Master's degree and experience in social work, and the determination needed to carry through an exacting program.

The program provides a basic preparation with which a person can enter one or several roles according to the changing needs and opportunities of social welfare and the changing interests and capabilities of the person. The curriculum includes the following areas of study:

- Social Welfare
- Theory in Social Work Practice
- Social and Behavioral Sciences
- Social Research

Preparation in these four areas is implemented through required courses in each of the areas, accounting for about one-half of the program; electives that are considered pertinent to individual interests, some of which may be taken in other departments within the College or at the University of Pennsylvania; and special experiences that are directed toward specific career goals, including teaching assistantships and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. The Research Center of the Department provides special opportunities for social work research. Qualified students may participate in various phases of research in social work under the direction of members of the faculty engaged in the program of the Center.

General Requirements. The general requirements for the Ph.D. degree are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the Department and to the Graduate Committee.

2. A course of study requiring a minimum, which will usually be exceeded, of three full years of graduate work in major and allied fields; two of these years (or for graduates of Bryn Mawr College, one) must be spent in the Graduate School of Bryn Mawr College. Candidates are strongly advised to complete at least seven units of graduate work.

3. The acceptance of the student as a candidate by the Director of his or her work, by the Department and by the Graduate Committee.

4. A reading knowledge of French (or in special cases another modern foreign language approved by the Department) tested by a written examination in the translation of texts in the field of the major subject.

5. A working knowledge of statistics. The specific statistics requirement may be met either by passing a written examination or by taking courses in statistics.

6. A satisfactory Preliminary Examination. This examination is intended to test the candidate's general knowledge in the major and allied fields rather than familiarity with particular courses.

7. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

8. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

9. The publication of the dissertation in whole or in part in accordance with the general regulations of the Graduate School.

SUMMER WORK

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their research during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of their instructors. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances.

REGISTRATION

Every Graduate Student must register for courses at the office of the Dean of the Graduate School within two weeks after entering the College. Permission to make any change in registration must be received from the Dean of the Graduate School.

Only courses given in the Department of Social Work and Social Research are described in this Bulletin. Unless otherwise noted, courses are for *one* semester. Description of other courses may be found in the Calendar of the Graduate School.

GRADING

Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

EXCLUSIONS

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undersirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Courses of Study

PROGRAM FOR THE MASTER OF SOCIAL SERVICE

The Social Services

Social Welfare Policy and Services I: Mr. Rein.

Consideration is given to the organization and growth of social welfare as a major social institution. From an historical and philosophical perspective, the influence of recent economic, social, and demographic trends upon social policy and the present organization of social welfare services are analyzed.

Social Welfare Policy and Services II: Mr. Rein.

The nature and scope of contemporary problems such as poverty, delinquency, and urban deterioration are analyzed. Competing and alternative theories concerning etiology and modes of intervention are specified, and present services are evaluated from this perspective.

Social Issues and Social Policy: Mrs. Lower and Visiting Lecturers.

Materials from selected fields are presented by prominent specialists, with attention to their implications for social policy. Among the fields considered are law, economics, public health, urban renewal and housing.

Human Growth and Behavior

Human Growth and Behavior I: Miss Segal, Miss Millar and Special Lecturers.

The development of the individual is presented through examination of the physical, social and psychological circumstances that affect the individual's potential for social functioning. The content emphasizes the opportunities and hazards of each phase of development and the adaptive patterns by which the potential for social functioning is realized or impeded. The course material is presented by a physician, a psychiatrist, a psychologist and a social worker.

Human Growth and Behavior II: Miss Segal, Miss Millar and Special Lecturers.

This course is a continuation of Human Growth and Behavior I, and deals with the range of differences in social functioning. There is examination of physical and mental illness and their connection with impaired social functioning. Emphasis is given to the interrelated effects of illness on the individual, his family and the community, and to implications for treatment and prevention.

Psychoanalytic Concepts in Social Work Practice: Mr. Lichtenberg.

This course is designed to increase knowledge and understanding of the dynamics of behavior. Stress is placed upon concepts and orientations from psychoanalytic ego psychology that have special pertinence to social work practice.

Social and Cultural Concepts in Social Work Practice: Instructor to be announced.

This course attempts to increase the student's understanding of the social foundations of individual and group behavior. Emphasis is upon those concepts and facts from social psychology, sociology and cultural anthropology that are especially useful in the practice of social work.

Social Work Practice

Social Casework I: Miss Haring, Mrs. Pollock.

This is an introductory course focusing on the generic processes in social work as applied to casework. Emphasis is placed on the basic principles and concepts relevant to the casework relationship, study and diagnosis. Methods and processes are illustrated through the use of case material.

Social Casework II: Miss Haring, Mrs. Pollock.

Continuation of Social Casework I with further consideration of diagnostic formulation and differential emphasis of agencies in social casework treatment.

Social Casework III: Miss Segal, Miss Millar.

An advanced casework course building on the basic study, diagnosis and treatment principles of the two preceding courses. Emphasis is on

differential approaches to treatment as determined by differential social diagnosis. Cases from different fields of practice are used to give opportunity for examination of general principles as well as of specific requirements of different fields.

Social Casework IV: Miss Segal, Miss Millar.

A continuation of Casework III in which students use cases from their own practice to examine the relationship between differential diagnosis and treatment, and the role and responsibilities of the social caseworker. Current issues and trends in social casework are considered.

Community Organization I: Mr. Goldstein.

An introduction to community organization as a field of practice and as a social work method and process. This course undertakes to develop a theory of community derived from analysis of various concepts of community and to explore principles and roles of professional practice.

Community Organization II: Mr. Goldstein.

Elaboration of community organization as a method of social work. Consideration of theory related to such concepts as community forces, social change, decision-making, power structures and critical analysis of variables in functions and roles associated with professional practice in selected settings.

Community Organization III: Mr. Ross.

A seminar on community welfare planning. Study of the functioning of health and welfare planning agencies, including analysis of structure and of the relation of physical and social planning. Current practices and issues concerned with auspices, financing, priorities, citizen participation, accountability and evaluation are considered.

Community Organization IV: Mr. Ross.

A seminar on goals, values and theories reflected in practice, with emphasis on content related to field instruction placements of students enrolled. Generic and specific elements of community organization practice are identified in welfare planning and federated financing agencies, housing and urban renewal programs, public health and mental health settings, intergroup relations commissions, neighborhood agencies and other settings. Community development is considered in relation to community organization.

Social Group Work: Mr. Goldstein.

Introduction to principles and practice of social group work as a basic social work method. Emphasis on the role and function of the professional person in relation to groups and their goals, the needs and interests of individual members, and the place of groups in the wider social setting of agency, neighborhood and community.

Administration of Social Agencies: Mr. Ormsby.

A seminar concerned with the social agency as a social institution, its organization and administrative processes. Subjects discussed include the role of the board, policy formulation, decision-making, management functions, the role of the staff in administration, principles in personnel management, budgeting and public relations. Participants prepare administrative case studies.

Field Instruction I.

Application of basic social work principles and concepts in the field setting. Field instructors carry responsibility for facilitating the student's learning and integration of the total curriculum. Taken collaterally with Casework I and II or Community Organization I and II. Requirement: two days per week, first semester; three days per week, second semester. Minimum requirement 450 hours.

Field Instruction II:

Taken collaterally with Casework III and IV, Community Organization III and IV, or Advanced Social Research. Requirement: three days per week, first and second semesters; 600 hours.

Social Research

Introduction to Statistical Concepts: Mrs. Kronick.

An introduction to the vocabulary and general concepts of statistics. This is a non-credit course and meets one hour per week.

Social Research: Mr. Vosburgh.

An introduction to social research. Within the framework of the principles of scientific method, this course emphasizes the logic of research procedures and the design of proof. The course aims to provide basic skills in formulation of problems and critical analysis of existing research. Concentration upon bodies of method relevant to social work problems.

Community Welfare Research: Mr. Uhlig.

Focuses on selected topics and issues in social welfare planning and research. Emphasis on functions of research departments in planning agencies, including such responsibilities as service statistics, need studies, priority studies, campaigning, budgeting and related problems in various fields of practice.

Thesis Seminar (two semesters) : Mr. Vosburgh and Faculty.

A Master's thesis is required of all candidates for the M.S.S. degree. The thesis may be an individual or a group project; it usually requires the collection, analysis and presentation of primary data. Work on group projects is coordinated in a thesis seminar which meets as needed. No course credit is given for the thesis.

PROGRAM FOR THE DOCTOR OF PHILOSOPHY

I SOCIAL WELFARE

History and Philosophy of Social Welfare: Mr. Ross, Mr. Lichtenberg,
Mr. Rein.

Social welfare in perspective, with emphasis on social and economic changes as reflected in developments of social welfare programs.

Community Welfare Planning: Mr. Rein.

This seminar deals with planned change in social welfare, drawing on the disciplines of economics, political science, and sociology, as well as social work. Among the topics considered are: organization in social welfare, the goals and the relationships between these and the needs of individuals; the structures through which such organizations operate and the societal forces which affect their operation.

Community Mental Health: Mr. Lichtenberg.

Directions in community mental health services and programs are explored, with special study in the varieties of mental health services, roles, and practices under active development and research in the epidemiology of mental disorder.

II SOCIAL WORK PRACTICE

Advanced Casework Theory: Miss Haring, Miss Segal.

A seminar in which the scientific base of casework methods and processes will be examined. Emphasis will be placed on relation of pertinent research findings to current operating assumptions, gaps in knowledge and the present stage of theory building in social work. Prerequisite: *Personality Theories and Social Work Practice*.

Theory in Community Organization: Mr. Ross.

A seminar to study current development of theory underpinning the professional practice of community organization for social welfare. Structure and process are considered; distinctions among philosophy, principles and theory are made. Applications to issues and trends in practice related to housing, urban renewal, community welfare planning, intergroup relations and mental health.

Supervision in Social Work: Miss Haring.

This course will relate basic learning theory to the supervisory method. Emphasis will be placed on identifying learning patterns in the student or staff supervisee and the appropriate selection of educational experiences.

The seminar is designed for those with limited supervisory experience. It may be taken for credit at the advanced level by meeting additional requirements.

Social Administration: Instructor to be announced.

A seminar concerned with problems of organization, management and human relations in administration with special reference to the relation of administration to policy formulation and the functions on the decision-making process. The approach is analytical rather than descriptive or technical. Discussions and readings are based primarily on case studies drawn from various fields of administration. Participants will each prepare administrative case studies.

III SOCIAL AND BEHAVIORAL SCIENCES

Personality Theories and Social Work Practice: Mr. Lichtenberg.

Major theories of personality are examined according to their central concepts and the problems with which they are concerned. Comparison of theories is effected through the study of special issues bearing upon social work practice. Recent research efforts are used to show the direction the theories are taking.

Advanced Psychoanalytic Theory: Mr. Lichtenberg.

Examination of psychoanalysis as a personality theory is made. Selected topics in psychoanalytic theory are studied, with special emphasis on psychoanalysis as ego psychology.

Social Science Concepts and Social Work Practice: Mr. Goldstein.

Selected theoretical approaches from sociology, social psychology, and anthropology are examined for their relevance and implications for social work practice. Students develop a particular conceptual frame-work from the social sciences and demonstrate its significance and application to social work practice.

Social Change: Mrs. Kronick.

An examination of major sociological theories of social change with specific attention to change in urban areas and resultant urban problems. Local problems are examined in terms of social change at the social level.

Concepts of Mental Health: Mr. Lichtenberg

Exploration is made of the problems whose resolution depends upon an adequate theory of mental health, the scientific issues posed, the varieties of concepts developed, and intensive evaluation of selected theories of mental health. The social implications of each theory are traced.

Formal Organizations: Mr. Vosburgh.

Structure and process in large-scale organizations. Starting from basic theories of social organization, the course focuses upon those organizations which are planned to coordinate the efforts of large numbers of persons to accomplish specific goals. Leadership, organizational pathologies and the role of the individual are considered.

IV SOCIAL RESEARCH

Advanced Statistics (two semesters) : Mrs. Maw.

The objectives are to acquaint the student with the techniques and measures most commonly used in current research, to make the student aware of the assumptions and conditions under which statistical operations are clearly meaningful; and to develop discrimination in the application and interpretation of statistical tests and techniques.

Advanced Methodology in Social Research:

Mr. Mech, Mrs. Bartholomew.

Study of contemporary methodological approaches to problems in social and behavioral research with application for social work. In-

tensive coverage of survey research design. Case study and clinical method, and design of social experiments.

Current Research in Social Work: Mr. Mech.

Critical evaluation of selected research investigations in social work with respect to problem formulation, identification of variables, design and quantitative analysis, and relevance to theory development.

Demographic Analysis: Mrs. Kronick.

Demographic characteristics of the United States and their analysis are studied with principle attention to the components of demographic change and their implications for social welfare. Students present original analyses of trends in contemporary population characteristics and their distribution in the United States.

Supervised Unit in Research: Members of the Department.

Upon invitation of a member of the Department, a student may take a supervised unit in research.

Courses in Related Departments in the Graduate School

Courses in related departments of the Graduate School may be elected as part of the student's program with the permission of the Department. Such courses should be integrated with the student's overall program and interests. Examples of such courses are:

Economics

- Comparative Economic Systems
- The Development of Underdeveloped Areas
- Government and Business
- Business Cycles and Full Employment

Education and Child Development

- Advanced Clinical Evaluation
- Problems of Child Development
- Elementary School Counseling
- Developmental Psychology
- Research and Measurement in Education
and Child Development
- Adolescent Development

Political Science

- Problems of Public Administration
- The World Community and Law

Psychology

- Human Learning and Thinking
- Comparative Psychology
- Personality
- Measurement Perception
- Social Psychology
- Statistical Methods

Sociology

- Sociological Theory
- Social Institutions
- Industrial Sociology

Graduate courses at the University of Pennsylvania are also available for graduate students of Bryn Mawr College. For information regarding the reciprocal arrangement with the University, see the section under Admissions.

Field Instruction

FIELD INSTRUCTION is an integral part of certain courses. For each student in these courses, field instruction is arranged in an established social agency of good standards. The purpose of the field instruction is to supplement the class work, giving the student the opportunity to apply the knowledge gained in class and thus to deepen the knowledge and develop skill in its use. It is planned by the agency in such a way as to give content, sequence and progression in learning. The class sessions and the field instruction run concurrently in order to insure an integration of the content of the two. Except in unusual circumstances, the student is placed in a different agency during each year of field instruction.

The time allotted for field instruction is a minimum of 450 hours per year for first-year courses and 600 hours per year for second-year courses. In a typical program, this consists of field practice for first-year students of approximately 14 hours per week, from October through January, and 21 hours per week, from February through May; and for the second-year students, 21 hours per week for each of the two semesters. Individual arrangements may be worked out on the basis of agency and student needs.

The following agencies are in use as field instruction centers:

Allentown State Hospital, Social Service Department
Association for Jewish Children
Child Care Service of Delaware County
Child Guidance Center of Mercer County
Child Study Center of Philadelphia
Child Study Institute of Bryn Mawr College
Children's Aid Society of Pennsylvania
Commission on Human Relations
Eastern Pennsylvania Psychiatric Institute, Adult Unit
Eastern Pennsylvania Psychiatric Institute, Children's Unit
Episcopal Community Services
Family Service of Delaware County
Family Service of the Main Line Neighborhood

Family Service of Philadelphia, North District
 Family Service of Philadelphia, Northeast District
 Family Service of Philadelphia, South District
 Friends Committee on Race Relations
 Friends Neighborhood Guild
 Germantown Settlement
 Health and Welfare Council of Camden County and United Fund of
 Camden
 Health and Welfare Council, Inc., Delaware County District
 Health and Welfare Council, Inc., Philadelphia
 Health and Welfare Council, Inc., Research Department
 Hospital of the University of Pennsylvania, Department of Social
 Service
 Jefferson Medical College, Social Service Department
 Jewish Federation of Greater Philadelphia
 Lankenau Hospital, Child Guidance Clinic
 The Lighthouse
 Lutheran Social Mission Society
 Montgomery County Board of Assistance
 Montgomery County Mental Health Clinics, Inc.
 Neighborhood Centre
 Norristown State Hospital, Social Service Department
 Philadelphia County Board of Assistance
 Philadelphia Department of Public Welfare
 Philadelphia General Hospital, Adult Psychiatric Clinic
 Philadelphia General Hospital, Children's and Adolescent's Clinic
 Philadelphia State Hospital, Social Service Department
 Redevelopment Authority of Philadelphia
 Southeastern Pennsylvania Chapter, American Red Cross
 Southern Home for Children
 St. Christopher's Hospital, Child Psychiatry Clinic
 St. Martha's Settlement
 Temple University, Center for Community Studies
 Temple University Hospital
 United Fund of the Philadelphia Area
 University Settlements
 Veterans Administration Hospital, Social Service Department,
 Coatesville, Pennsylvania
 Y.W.C.A. of Philadelphia

The Research Center

THE RESEARCH CENTER of the Department of Social Work and Social Research was established in 1958 with the aid of a grant from the Dolfinger-McMahon Foundation of Philadelphia. The Center concentrates its work on the areas of new knowledge important as a result of the expanding scope and complexity of problems in social welfare.

The Center aims to foster contributions to the foundation knowledge of social work through the processes of research, training for research, and consultation. The staff and resources of the Center are devoted at any one time to a number of projects on different aspects of social welfare. Projects have been undertaken in such areas as adoption, the rehabilitation of stroke patients, dependency, demographic factors and social welfare services, and social work education.

The Center also provides an opportunity for student training at the advanced level through supervised units in research with faculty members engaged in Research Center projects. Funds are available from time to time for research assistantships for qualified advanced students.

Represented on the staff is a variety of interest and training in the social sciences and social welfare, thus bringing the research techniques and perspectives of related disciplines to bear upon social welfare problems.

Fees and Residence

FEES

THE TUITION FEE for graduate students is \$1300 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work is \$165 a semester.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field instruction are charged a fee of \$10 a semester for each such course taken during the academic year. This fee covers a part of the expenses of field supervision. In addition, students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

The graduation fee for Doctors of Philosophy and Masters of Social Service is \$20.00.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Tuition Fee	\$1300
Residence Fee at Graduate Center (including health service)	1000
Dispensary Fee (for non-resident students)	15
Fee for Field Instruction Manual, Thesis Manual and other materials	5
Field Instruction Fee	20
Graduation Fee	20
Expenses, Christmas and spring vacations, commuting to field instruction, books	variable

Students whose fees are not paid before November 15th the first semester and before March 15th in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence, withdrawal, dismissal or for any other reason.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

The Graduate Center

RESIDENCE for forty-five women graduate students is provided in the Graduate Center, which lies at the north end of the campus about an eight-minute walk from the Library¹. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five students, the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms — a large living room and the Manning-Smith recreation room — are available to all members of the Club. The dining room, which seats sixty, is open to non-resident students living outside the Center who wish to lunch or dine there. For the residents there are smoking rooms and tea pantries. The bedrooms are fully furnished except for curtains. Bed linen, including blankets, is provided but students should bring their own towels. Because of College fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room-contract, which will be sent on request, must be signed and returned, with the registration fee of ten dollars, to the Dean of the Graduate School. The amount of this fee will be deducted from the residence fee. The registration fee will not be refunded under any circumstances. A student in residence or a new student who cancels her reservation after September 1st prevents some other student from ob-

¹ Residence in the Graduate Center is sometimes not convenient for students in field instruction because of regulations concerning meals and vacation periods. Students are advised to consider these factors in choosing living accommodations.

taining accommodation. Therefore, unless a student sends notice of withdrawal in writing to the Dean of the Graduate School before September 1st, she is responsible for that portion of the residence charge which the College loses by reason of her withdrawal, whether she fails to occupy the room at all or vacates it during the year. Appropriate reduction or remission is made for that portion of the residence fee which represents reduced expense to the College for food; a further remission or reduction is made if the College is able to re-assign the student's room to some other student not previously in residence. The student herself is not entitled to dispose of the room she leaves vacant. In cases of absence from the College extending over six weeks or more, owing to illness, there will be a proportionate reduction in the charge for the cost of food.

The regular charge for residence (room, board and health service) for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second semester.

Residence in the Graduate Center is for the academic year only — from the opening of college until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who are required to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will not be accepted at the College before September 15th. It should be sent prepaid, addressed to the Graduate Center.

There is no hall of residence for men. They and other non-resident students must make their own living arrangements. Lists of accommodations may be seen in the Comptroller's Office.

Student and Alumni Organizations

THE GRADUATE CLUB

All Resident Students in the Graduate School are members of the Graduate Club and non-residents may become members. The organization of the life of the graduate student in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the college as a whole. The Council of the Graduate Club considers policies relating particularly to the Graduate School.

STUDENT ORGANIZATION OF THE DEPARTMENT OF SOCIAL WORK

All Students in the Department of Social Work and Social Research are eligible for membership in the Student Organization. The organization is concerned with the many phases of student life, such as social gatherings, special events, administration of student lounge, self-regulation of Reading Room and other student needs. The Student Organization and Faculty work together closely to promote the objectives of the Department.

ALUMNI ASSOCIATION OF THE DEPARTMENT

The Alumni Association of the Department was organized to further the development of the Department and its alumni. Activities of the Association include, a spring breakfast for students to be awarded the M.S.S. or the Ph.D. In addition, the Association makes available the Alumni Tuition Scholarship, to which applicants for admission from the Philadelphia area are eligible.

Officers for 1962-1963 are:

GOETZ MAYER, *President*

MISS FRANCES STONE, *First Vice President*

ABRAHAM H. TUCKER, *Second Vice President*

MISS JEAN H. SPARKMAN, *Recording Secretary*

SISTER GUNNEL STERNER, *Corresponding Secretary*

MISS JANE MOSEMAN, *Treasurer*

Fellowships and Scholarships

A VARIETY OF FINANCIAL RESOURCES is available for full-time students in the Department of Social Work and Social Research. The terms of the various awards differ and will be discussed with the applicant at the time of the admission interview. Both merit and need are factors to which consideration is given. The Department makes every effort to locate the financial aid best suited to the applicants' needs. Application for awards other than those of Bryn Mawr College may be made up to June 1st preceeding the academic year for which they are desired.

Application for fellowships and scholarships in the award of Bryn Mawr College should be made to the Director of the Department of Social Work and Social Research and must be filed *not later than February 1st* preceding the academic year for which they are desired. Awards are announced each year on April 1st. Original papers and documents, sent by applicants in support of their applications, can be returned only if postage is enclosed for that purpose, or specific instructions are given for return by express. Letters from professors and instructors and other individuals are filed for reference.

All Fellows and Scholars must devote full time to graduate work, and pay tuition of \$1300 plus a field instruction fee of \$20. Scholars in their first year at Bryn Mawr must live at the Graduate Center. Others may elect to do so.

I. GENERAL FELLOWSHIPS AND SCHOLARSHIPS

The Department of Social Work offers the Carola Woerishoffer Fellowship, value \$2800, and one or two scholarships, value \$2100. The fellowship is open to women who have completed a full year of graduate work. Scholarships are open to women who hold the A.B. degree or its equivalent from a college or university of recognized standing.

The College has several scholarships of \$2100 which are open to men or women for study in any department.

Tuition scholarships, \$1300, are available to men and women whose homes are in the Philadelphia area, to men and women interested in preparation in the field of Community Organization, and to other qualified students.

II. MASTER'S DEGREE PROGRAM

AGENCY FELLOWSHIPS AND SCHOLARSHIPS

Scholarships in social work practice are offered to qualified men and women by a variety of local agencies. They range up to \$2800. Awards depend upon acceptance by the Department and, in some instances, an agreement concerning one year's employment following graduation.

Agency awards are based upon financial need and professional promise for social work. The Department will aid the student in identifying assistance suited to his qualifications and needs.

GRANTS FROM THE COMMONWEALTH OF PENNSYLVANIA

The Commonwealth of Pennsylvania has several plans for financing social work education through different offices of the Department of Public Welfare, including Mental Health, Public Assistance and the Office for Children and Youth. A commitment to the state program through which the student is financed is required. Early application is desirable. The Department will assist the student in this at the time of the admission interview. Information may also be obtained from the Department of Public Welfare of the Commonwealth of Pennsylvania, Harrisburg, Pennsylvania.

FEDERAL TRAINEESHIPS

The United States Public Health Service makes available to the Department traineeships for men or women with career goals in psychiatric social work. These traineeships are \$1800 plus tuition for first-year students and \$2000 plus tuition for second-year students.

The Office of Vocational Rehabilitation offers traineeships of \$1800 for first-year and \$2000 for second-year students. These grants are open to both men and women whose career objectives are in the field of rehabilitation.

A number of United States Public Health Service and Office of Vocational Rehabilitation traineeships is available to the Department and is allocated after acceptance for admission.

III. ADVANCED PROGRAM

Advanced traineeships of the United States Public Health Service are available for the doctoral program. These vary in amount from \$2400 to \$3600 plus tuition, depending upon the experience of the candidate and the year of training for which they are granted. These traineeships are awarded to applicants with the goal of the Ph.D. Degree and only for full-time study.

COMMUNITY WELFARE RESEARCH PROGRAM

A special training program for research in Community Welfare has been established in association with the Health and Welfare Council Inc. of Philadelphia. A limited number of stipends are available with the assistance of the Lilly Endowment, Inc. The amount of the stipend is determined by the student's qualifications and needs.

The goal of the program is to train selected and qualified students to fill research positions in planning councils and agencies. The program of study includes academic work and field instruction in the Research Department of the Health and Welfare Council, Inc. of Philadelphia. This program may be developed as part of a plan for work toward Master's degree or as a part of an advanced program.

RESEARCH ASSISTANTSHIP

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of \$2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

TEACHING ASSISTANTSHIP

A Teaching Assistantship provides a stipend of \$2200 plus one-half tuition. The Assistant will be expected to carry out assignments in the teaching program limited to twenty hours a week or one-half time. The primary purpose of this Assistantship is to provide an advanced student with experience in preparation for a career in teaching.

GRADUATE PRIZES

The Susan B. Anthony Memorial Prize, value \$500, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered every two years to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by a committee of which the President of the College is chairman.

The Hertha Kraus Award, value \$50, is offered annually to a student of the Graduate Department of Social Work and Social Research. This award was established by the Alumni Association of the Department in honor of Hertha Kraus, a member of the faculty of the Department for over twenty-five years. It is presented to the student who, in the opinion of a special committee established for this purpose, has written the best paper of the year on a subject relating to community organization, history of social welfare, international social welfare or social welfare administration.

The Susan M. Kingsbury Grant in Social Research, value \$300, is awarded every third year on the recommendation of the Director of the Graduate Department of Social Work and Social Research to advanced students, men and women, preferably candidates for the degree of Doctor of Philosophy.

Loan Funds

The Bertha Goldstein Memorial Loan Fund, established in honor of Bertha Goldstein, A.B. 1938 and M.A. 1939, is a revolving fund from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans, not exceeding \$150, may be made to graduate students of Social Work and Social Research. Loans are made without interest and must be repaid within five years.

The Ethel Rupert Memorial Loan Fund was established in 1951 by the friends of Ethel Rupert to commemorate her long interest in the preparation of personnel in public welfare. It is a revolving fund from which small loans are made to students in the Department of Social Work and Social Research, at the discretion of the Department.

The Rachel Pflaum Memorial Loan Fund, established in 1926 in memory of Rachel Pflaum, and transferred to Bryn Mawr College in 1951, is a revolving fund from which loans, not to exceed \$200, for tuition purposes may be made to students who are recommended by the Director of the Department of Social Work and Social Research.

The Carola Woerishoffer Club Fund is a small revolving fund from which loans may be made to students in the Department of Social Work and Social Research.

The Library

THE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH has its own Library and Reading Room including a collection of books made available on permanent loan from the M. Carey Thomas Library as well as periodicals and pamphlet material in the field of social welfare.

The M. Carey Thomas Library now contains over a quarter of a million volumes. The Library has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Room are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference.

Provision is made in the Quita Woodward Memorial Room for books for recreational reading. This collection, numbering more than two thousand volumes, includes books in literature, art, religion, and current affairs as well as many of the classics.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue, volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has a record of all books owned by the libraries of the region. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

Health

CERTAIN HEALTH REQUIREMENTS must be met by all entering students. The medical examination blank provided by the College must be completed and filed at the time of application. After acceptance every student must also file a physician's certificate stating that he or she has been vaccinated against smallpox within one year of entrance, and that he or she exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination are vaccinated at the time of their entrance and charged a fee of one dollar. There is no exception to this rule.

Resident students (those who live in the Graduate Center) must present a statement of immunization against tetanus by toxoid, evidence of a negative Schick test, or immunization against diphtheria and the result of a Mantoux test, all done within one year of entrance. If the Mantoux test is reported positive, a chest X-ray is required. If these tests have not been completed when the student arrives in Bryn Mawr they will be done at the time of the initial physical examination at a fee of one dollar for each test.

Every resident graduate student must also file a certificate stating that her eyes have been examined by an ophthalmologist within six months before entrance to the Graduate School. Failure to comply with the above rule entails an examination by one of the college consultants for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every entering resident graduate student is examined by the physician of the college, with reference to physical development and general health. Second- and third-year residents whose health records have been approved by the college physician are not re-examined. Any student, who at the time of the examination or at any time during the year, is not in good health, is placed on the health supervision list.

The College maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians and psychiatrists may be consulted without charge by the students who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is necessary. The Infirmary is open when College is in session, and during the Spring vacation. It is closed during the Christmas vacation.

The residence charge paid by each resident graduate student entitles her to treatment in the college dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College physicians during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. The fee for each day in the Infirmary after the seven-day period is nine dollars. In case of contagious disease special nursing is obligatory and the student must meet this expense.

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$15 for a full year starting October 1st. Students should apply to the Comptroller of the College.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of \$15, which entitles them to care and consultations by the College physicians and psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. *Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.*

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

College Calendar

1962 - 1963

FIRST SEMESTER

1962

- | | | |
|-----------|-----|---|
| September | 20. | Graduate Center open to resident graduate students |
| | 20. | Registration period for graduate students begins |
| | 25. | Work of the 78th academic year begins |
| | 27. | Registration period for graduate students ends |
| November | 21. | Thanksgiving holiday begins after last class and ends
at 9 A.M. the following Monday |
| December | 14. | Christmas vacation begins at 12:45 P.M. |

1963

- | | | |
|---------|-----|--|
| January | 3. | Christmas vacation ends at 9 A.M. |
| | 18. | Last day of lectures |
| | 21. | College examinations begin |
| | 30. | Registration period for graduate students begins |
| | 31. | College examinations end |

SECOND SEMESTER

- | | | |
|----------|-----|--|
| February | 4. | Work of the second semester begins |
| | 6. | Registration period for graduate students ends |
| March | 29. | Spring vacation begins after last class |
| April | 8. | Spring vacation ends at 9 A.M. |
| May | 17. | Last day of lectures |
| | 20. | College examinations begin |
| | 31. | College examinations end |
| June | 3. | Conferring of degrees and close of 78th year |

The calendar of dates to be observed by students in Social Work varies in some instances from the College Calendar. Students will be informed of these dates early in September. Among the differences are the more limited vacation periods at Christmas and Easter for those students in field instruction. There is no break in field instruction for the examination period in January - February.

How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

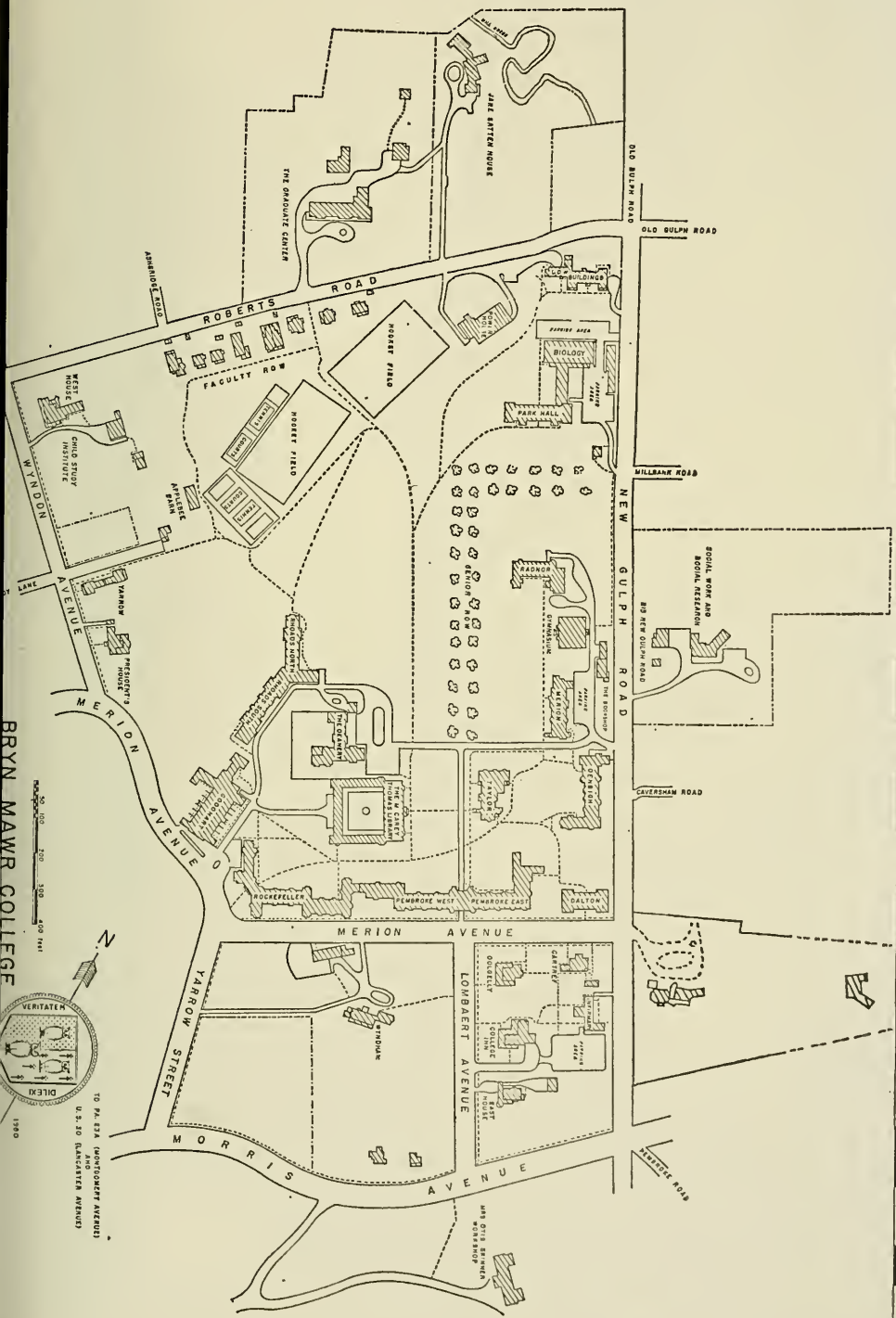
By air: Passengers arrive at the Philadelphia International Airport and can use the airport limousine to Philadelphia or take a taxi directly to Bryn Mawr, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. No. 43) turning right at Pa. No. 23, which is 3.5 miles east of the toll gate; continue into Alternate No. 23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road.

Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road. The entrance to the parking lot for registered students is at the College Inn.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To reach 815 New Gulph Road from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery and continue on Morris to the next traffic light. Turn left on to New Gulph Road until reaching 815, which is on the right just beyond Caversham Road.



ILLUSTRATIONS:

The M. Carey Thomas Library

815 New Gulph Road

Taylor Hall

Air View of Bryn Mawr College

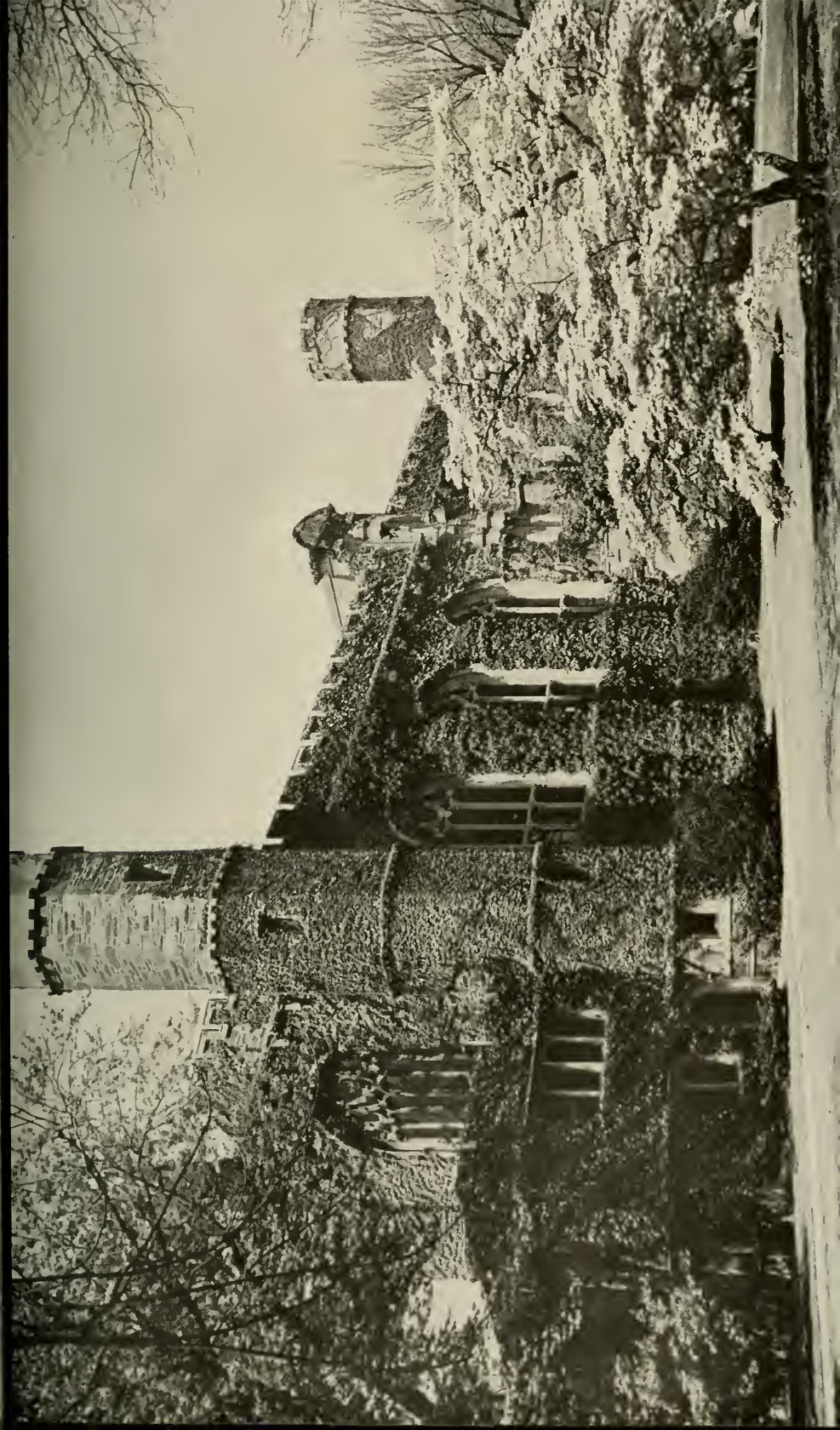


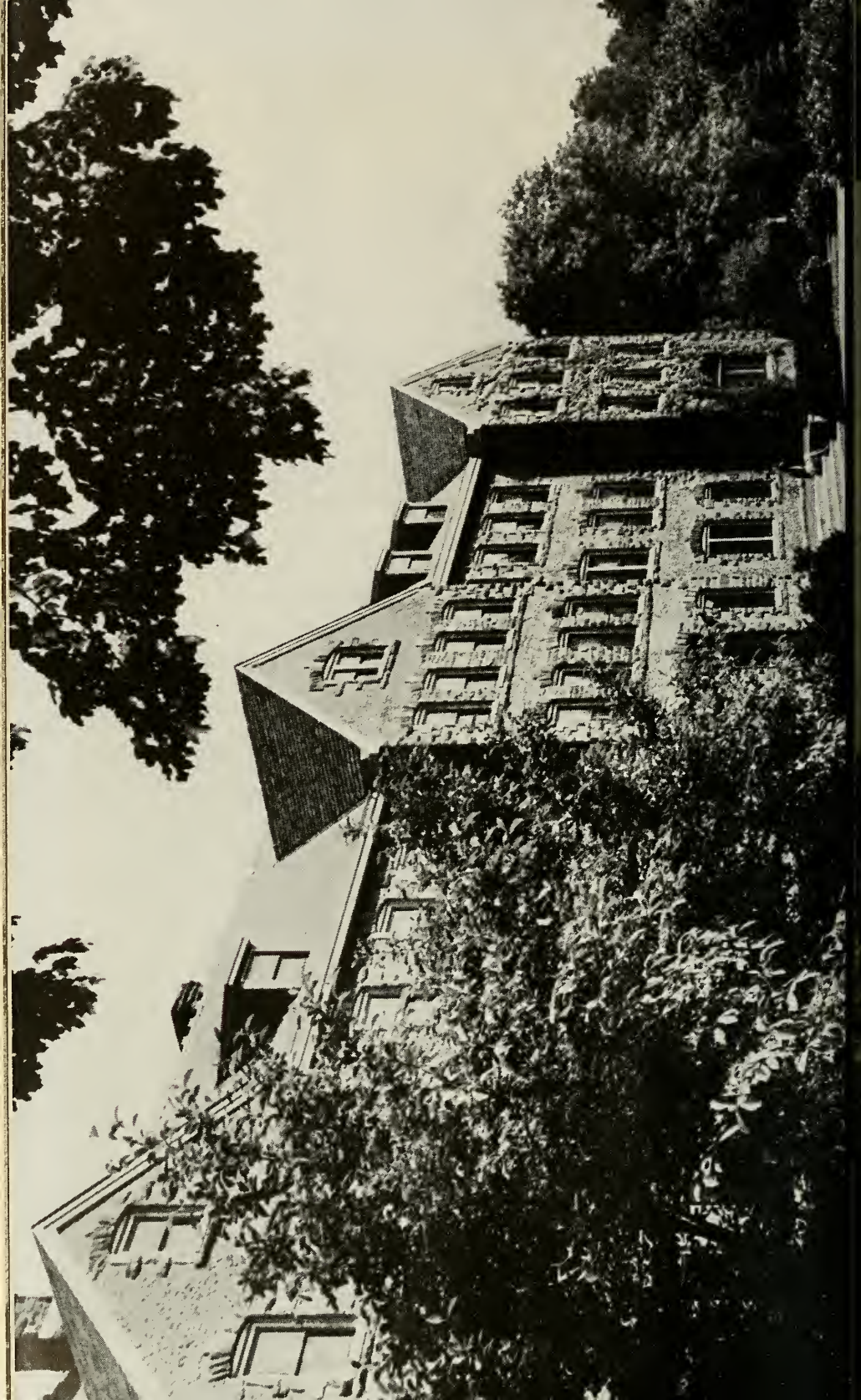


BRYN MAWR

COLLEGE CALENDAR

THE GRADUATE SCHOOL 1962-1963



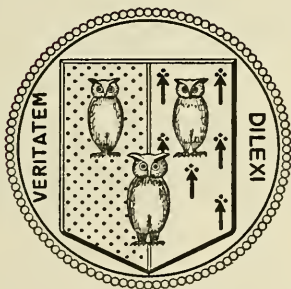


Bryn Mawr College Calendar

THE GRADUATE SCHOOL

ISSUE FOR THE SESSION OF

1962 • 1963



JULY 1962

Volume LV

Number 2

1962	1963		1964
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
JULY	JANUARY	JULY	JANUARY
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SEPTEMBER	MARCH	SEPTEMBER	MARCH
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25 26 27 28 29 30 ..	26 27 28 29 30 31 ..	24 25 26 27 28 29 30	24 25 26 27 28 29 30
DECEMBER	JUNE	DECEMBER	JUNE
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2 3 4 5 6 7 8	2 3 4 5 6 7 8	8 9 10 11 12 13 14	7 8 9 10 11 12 13
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Photographs: The M. Carey Thomas Library; The Graduate Center on Roberts Road.

College Calendar

The Graduate School 1962-1963

FIRST SEMESTER

1962

- September 14.* Final date for filing completed applications for admission to the Graduate School
- September 20.* Graduate Center opens to resident students
Registration period for graduate students begins
- September 25.* Work of 78th academic year begins at 9 A.M.
- September 27.* Registration period for graduate students ends
- September 29.* English test for foreign graduate students
- October 13.* Spanish and Italian language examinations
Statistics examinations for M.A. candidates
- October 20.* German language examinations
- October 27.* Russian language examinations
- November 3.* French language examinations
- November 21.* Thanksgiving holiday begins after last class
- November 26.* Thanksgiving holiday ends at 9 A.M.
- December 14.* Christmas vacation begins at 12:45 P.M.

1963

- January 3.* Christmas vacation ends at 9 A.M.
- January 5.* Spanish and Italian language examinations
Statistics examinations for M.A. candidates
- January 12.* German language examinations
- January 18.* Last day of lectures
- January 19.* Russian language examinations

- January* 21. College examinations begin
- January* 25. Final date for filing completed applications for admission for Semester II
- January* 26. French language examinations
- January* 30. Registration period for graduate students begins
- January* 31. College examinations end

SECOND SEMESTER

- February* 4. Work of the second semester begins at 9 A.M.
- February* 6. Registration period for graduate students ends
- March* 29. Spring vacation begins after last class
- April* 8. Spring vacation ends at 9 A.M.
- April* 10. Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to the Dean of the Graduate School
- April* 20. Spanish and Italian language examinations
Statistics examinations for M.A. candidates
- April* 27. French language examinations
- May* 1. Ph.D. dissertations in experimental science and mathematics must be submitted to the Dean of the Graduate School
- May* 4. German language examinations
- May* 11. Russian language examinations
- May* 17. Last day of lectures
- May* 20. College examinations begin
- May* 31. College examinations end
- June* 3. Conferring of degrees and close of 78th academic year
- June* 8. Alumnae Day

Introduction

BRYN MAWR COLLEGE was founded as an institution of higher education for women by Dr. Joseph Taylor of Burlington, New Jersey, a member of the Society of Friends. The charter was granted by the Commonwealth of Pennsylvania in 1880 and five years later the College opened. At the time of its founding not only was advanced education of a rigorous character difficult for women to obtain but graduate study as conceived at present was in its earliest stages. The lack of young women qualified to give the kind of instruction envisioned by the Founder led the first trustees to include in the plans for the "New College" the education of women right through to the Ph.D. Thus when Bryn Mawr College opened in 1885 it was with the first Graduate School for women and the first full graduate fellowships for women. In response to the growing demand for postgraduate study, the Graduate School began, in the thirties, to admit men as well as women. At present about one-fourth of the students are men.

The purpose of graduate work at Bryn Mawr is to prepare students for professional careers in which scholarship and research are fundamental requirements. To this end emphasis is placed on independent work and special opportunities are provided for study and research, in small seminars, under the guidance of members of the Faculty.

Graduate work leading to the M.A. and Ph.D. is offered in the fields of modern literatures, the classics, art and archaeology, music, history and social sciences, philosophy, mathematics, the natural sciences and psychology, and in mediaeval studies. A two-year course in Social Work and Social Research leads to the degree of Master of Social Service; the advanced program in this Department leads to the Ph.D.

In all departments fellowships and scholarships are offered to applicants who are highly qualified for the work they propose to do. In a number of departments teaching or research assistantships are also available. Canadians may apply for fellowships or scholarships on the same basis as students from the United States. Awards are made to students from overseas through the Marguerite N. Farley Fund and through teaching assistantships in French, German, Italian and Spanish.

The Trustees of Bryn Mawr College

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ELEANOR LITTLE ALDRICH ⁵	<i>Alumnae Director, 1961-1966</i>
	ELIZABETH CURRAN WARREN ¹⁴
	<i>Alumnae Director, 1962-1967</i>

EDITH HARRIS WEST, *by invitation*¹⁵
President of the Alumnae Association

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12. Mrs. Henry J. Mali
13. Mrs. G. Howland Chase
14. Mrs. Geoffrey S. Warren
15. Mrs. W. Nelson West, III.

Faculty and Staff

ACADEMIC YEAR, 1962-1963

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LL.D., L.H.D., SC.D., *President of the College*

ELEANOR A. BLISS, SC.D. (Johns Hopkins University), SC.D., *Dean
of the Graduate School*

DOROTHY NEPPER MARSHALL, PH.D. (Bryn Mawr College), *Dean
of the College*

ANNIE LEIGH BROUGHTON, M.A. (Bryn Mawr College), *Director
of Admissions*

MARGARET TYLER PAUL, A.B. (Bryn Mawr College), *Assistant to
the President*

JANET MARGARET AGNEW, B.L.S. (McGill University), M.A. (Uni-
versity of Manitoba), *Head Librarian*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of
Physical Education*

ELIZABETH HUMESTON, M.D. (Cornell University), *College Phy-
sician*

RHYS CARPENTER, PH.D. (Columbia University), LITT.D., *Profes-
sor Emeritus of Classical Archaeology*

GRACE MEAD ANDRUS DE LAGUNA, PH.D. (Cornell University),
Professor Emeritus of Philosophy

MAX DIEZ, PH.D. (University of Texas), *Professor Emeritus of
German Literature*

CHARLES GHEQUIÈRE FENWICK, PH.D. (Johns Hopkins University),
LL.D., *Professor Emeritus of Political Science*

GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus
of Old French*

STEPHEN JOSEPH HERBEN, B.LITT., PH.D. (Princeton University),
Professor Emeritus of English Philology

MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor
Emeritus of German*

- HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor Emeritus of History*
- CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*
- FRITZ MEZGER, PH.D. (University of Berlin), *Professor Emeritus of Germanic Philology*
- MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*
- LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin*
- ANNA PELL WHEELER, PH.D. (University of Chicago), SC.D., *Professor Emeritus of Mathematics*
- THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin, Secretary of the Faculty*
- HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music and Visiting Professor*
- ERNST BERLINER, PH.D. (Harvard University), *Professor of Chemistry*
- L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*
- MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Professor of Psychology*
- ELEANOR A. BLISS, SC.D. (Johns Hopkins University), SC.D., *Dean of the Graduate School and Professor of Biology*
- RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Professor of Education and Psychology*
- FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*¹
- LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*
- JOSÉ MARIA FERRATER MORA, *Licenciado en Filosofía* (University of Barcelona), *Professor of Philosophy*
- MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College), *Professor of Biology*

1. On sabbatical leave for the year, 1962-1963.

- ROBERT L. GOODALE, B.MUS. (Yale University), A.A.G.O., *Professor of Music*
- JOSHUA C. HUBBARD, PH.D. (Harvard University), *Professor of Economics*
- AGI JAMBOR, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*
- MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Professor of Greek*
- RICHMOND LATTIMORE, PH.D. (University of Illinois), LITT.D., *Paul Shorey Professor of Greek*
- MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of Mathematics*
- ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor of Italian*
- KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*
- BERTHE MARIE MARTI, PH.D. (Bryn Mawr College), *Professor of Latin*
- AGNES KIRSOPP LAKE MICHELS, PH.D. (Bryn Mawr College), *Professor of Latin*
- WALTER C. MICHELS, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*
- CHARLES MITCHELL, M.A., B.LITT. (Oxford University), *Richard M. Bernheimer Professor of History of Art*
- MILTON CHARLES NAHM, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*
- MILDRED BENEDICT NORTHROP, PH.D. (Columbia University), *Professor of Economics*
- JANE MARION OPPENHEIMER, PH.D. (Yale University), *Professor of Biology*
- JOHN C. OXTOBY, M.A. (University of California), *Professor of Mathematics*
- WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*

CAROLINE ROBBINS, PH.D. (University of London), *Professor of History*

ARTHUR COLBY SPRAGUE, PH.D. (Harvard University), *Mary E. Garrett Alumnae Professor of English Literature*

K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and Political Theory*

ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*

EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*

ROGER HEWES WELLS, PH.D. (Harvard University), *Professor of Political Science*

MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College), *Professor of English*

DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of Geology*¹

HUGUES LEBLANC, PH.D. (Harvard University), *Associate Professor and Professor-elect of Philosophy*

MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Associate Professor and Professor-elect of Classical and Near Eastern Archaeology*

BERNARD ROSS, M.S.S.A. (University of Pittsburgh), PH.D. (University of Michigan), *Associate Professor and Professor-elect of Social Work and Social Research*

PETER BACHRACH, PH.D. (Harvard University), *Associate Professor of Political Science*

MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Professor of Economics*

WARNER B. BERTHOFF, PH.D. (Harvard University), *Associate Professor of English*²

1. On sabbatical leave for the year, 1962-1963.

2. On leave of absence, semester I; sabbatical leave, semester II, 1962-1963.

- DONALD ROBERT BROWN, PH.D. (University of California), *Associate Professor of Psychology*
- ROBERT L. CONNER, PH.D. (Indiana University), *Associate Professor of Biology*
- FREDERIC CUNNINGHAM, JR., PH.D. (Harvard University), *Associate Professor of Mathematics*
- ROBERT SIMON DAVIDON, PH.D. (University of Pennsylvania), *Associate Professor of Psychology*
- FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate Professor of Russian, on joint appointment with Haverford College*
- ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate Professor of History*
- JAMES W. FOWLE, PH.D. (Harvard University), *Associate Professor of History of Art*
- LOUIS GOLDSTEIN, PH.D. (University of Minnesota), *Associate Professor of Social Work and Social Research*
- MICHEL GUGGENHEIM, PH.D. (Yale University), *Associate Professor of French*
- JEAN D. HARING, M.A. (Ohio State University), M.S.W. (University of Michigan), *Associate Professor of Social Work and Social Research*
- DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Associate Professor of History*
- ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Professor of Physics*
- MELVILLE T. KENNEDY, JR., PH.D. (Harvard University), *Associate Professor of Political Science*
- GEORGE L. KLINE, PH.D. (Columbia University), *Associate Professor of Russian and Philosophy*¹
- HERTHA KRAUS, PH.D. (University of Frankfurt), *Carola Woerishoffer Associate Professor of Social Work and Social Research*²

1. On sabbatical leave for semester I, 1962-1963.

2. On sabbatical leave for the year, 1962-1963.

- GERTRUDE C. K. LEIGHTON, A.B. (Bryn Mawr College), LL.B. (Yale University), *Associate Professor of Political Science*¹
- PHILIP LICHTENBERG, PH.D. (Western Reserve University), *Associate Professor of Social Research*
- WILLIAM C. LOERKE, M.F.A., PH.D. (Princeton University), *Associate Professor of History of Art*
- ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Associate Professor of English*
- MARIO MAURIN, PH.D. (Yale University), *Associate Professor of French*
- EDMUND V. MECH, PH.D. (Indiana University), M.S.S. (Bryn Mawr College), *Associate Professor of Social Work and Social Research*
- JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*
- EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor of Sociology*
- CHRISTOPH E. SCHWEITZER, PH.D. (Yale University), *Associate Professor of German*
- ROSE SEGAL, M.S. (Simmons College School of Social Work), *Associate Professor of Social Work and Social Research*
- WILLIAM AUGUST WILSON, JR., M.D. (Yale University), PH.D. (University of California), *Associate Professor of Psychology*
- GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*
- JEANNE C. POLLOCK, M.S.W. (University of Pennsylvania School of Social Work), *Lecturer and Associate Professor-elect of Social Work*
- JEAN A. POTTER, PH.D. (Yale University), *Visiting Lecturer and Associate Professor-elect of Philosophy*
- MARTIN REIN, M.S.S.W. (New York School of Social Work), PH.D. (Brandeis University), *Associate Professor-elect of Social Work and Social Research*

1. On partial leave of absence for the year, 1962-1963.

- JAMES H. BRODERICK, PH.D. (Harvard University), *Assistant Professor of English*
- ROBERT B. BURLIN, PH.D. (Yale University), *Assistant Professor of English*
- ROBERT HAWES BUTMAN, M.A. (University of North Carolina), *Assistant Professor of English on the Theresa Helburn Fund*
- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*
- WILLIAM PAUL GANLEY, PH.D. (University of Buffalo), *Assistant Professor of Physics*
- RICHARD C. GONZALEZ, PH.D. (University of Maryland), *Assistant Professor of Psychology*
- SYLVIA W. KENNEY, PH.D. (Yale University), *Assistant Professor of Music*
- WILLARD FAHRENKAMP KING, PH.D. (Brown University), *Assistant Professor of Spanish*
- JANE COLLIER KRONICK, PH.D. (Yale University), *Assistant Professor of Social Work and Social Research*
- FRANK BRYANT MALLORY, PH.D. (California Institute of Technology), *Assistant Professor of Chemistry*
- RUTH C. PEARCE, PH.D. (University of Pennsylvania), *Assistant Professor of Russian*
- BRUNILDE SISMONDO RIDGWAY, PH.D. (Bryn Mawr College), *Assistant Professor of Classical and Near Eastern Archaeology*
- HUGO SCHMIDT, PH.D. (Columbia University), *Assistant Professor of German*
- JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Assistant Professor of Chemistry*
- MARY MAPLES DUNN, PH.D. (Bryn Mawr College), *Assistant Professor-elect of History*
- ETHEL MAW, PH.D. (University of Pennsylvania), *Lecturer and Assistant Professor-elect of Education and Child Development*

KYLE M. PHILLIPS, JR., PH.D. (Princeton University), *Assistant Professor-elect of Classical and Near Eastern Archaeology*

JEROME REGNIER, PH.D. (Columbia University), *Assistant Professor-elect of Geology*

WILLIAM Z. SHETTER, PH.D. (University of California), *Assistant Professor-elect of German*

BERNARD TOSCANI, PH.D. (University of Pennsylvania), *Instructor and Assistant Professor-elect of Italian*

WILLIAM W. VOSBURGH, PH.D. (Yale University), *Instructor and Assistant Professor-elect of Social Work and Social Research*

FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*

GALIA S. BODDE (Far Eastern University), *Part-time Lecturer in Russian*

MILTON BRUTTEN, PH.D. (Northwestern University), *Part-time Lecturer in Education and Child Development*

JOHN P. CHESICK, PH.D. (Harvard University), *Visiting Lecturer in Chemistry for Semester II*

H. HENNIG COHEN, PH.D. (Tulane University), *Visiting Lecturer in English*

CHARLES J. COOPER, LL.B. (Harvard University), *Part-time Lecturer in Political Science*

ROBERT CORRIGAN, M.A. (University of Pennsylvania), *Part-time Lecturer in English*

SARAH C. FLEMISTER, PH.D. (Duke University), *Part-time Lecturer in Biology*

JANE C. GOODALE, PH.D. (University of Pennsylvania), *Lecturer in Anthropology*

M. PAULINE JONES, M.A. (Middlebury College), *Lecturer in French*

ENRIQUE LAFUENTE FERRARI, PH.D. (University of Madrid), *Visiting Lecturer in Spanish and History of Art*

- BARBARA MILLER LANE, PH.D. (Harvard University), *Lecturer in History*
- SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director of the Phebe Anna Thorne School and Part-time Lecturer in Education and Child Development*
- HAROLD WALTER SCHEFFLER, M.A. (University of Chicago), *Lecturer in Anthropology*
- ALAN SILVERA, M.A. (Harvard University), *Lecturer in History*
- PHYLLIS TURNBULL, D. en F.L. (University of Madrid), *Lecturer in Spanish*
- ERIKA ROSSMAN BEHREND, A.M. (University of Pennsylvania), *Research Associate in Psychology*
- DONALD H. BULLOCK, PH.D. (Columbia University), *Research Associate in Psychology*
- LISELOTTE M. FREED, PH.D. (Columbia University), *Research Associate in Biology*
- HENRY GLEITMAN, PH.D. (University of California), *Research Associate in Psychology*
- B. C. JOSHI, D.PHIL. (University of Allahabad), *Research Associate in Chemistry*
- PHOEBE S. LEBY, PH.D. (Bryn Mawr College), *Research Associate in Biology*
- DOROTHY S. SMYTHE, A.B. (Mount Holyoke College), *Research Associate in Biology*
- LARRY STEIN, PH.D. (University of Iowa), *Research Associate in Psychology*
- MARTHA HELSON WILSON, PH.D. (Yale University), *Research Associate in Psychology*
- GERALD ACKERMAN, M.F.A. (Princeton University), *Instructor in History of Art*
- KATRIN TAEGER BEAN, M.A. (Bryn Mawr College), *Part-time Instructor in German*

SANDRA M. BERWIND, M.A. (Bryn Mawr College), *Part-time Instructor in English*

MIGUEL GONZALEZ-GERTH, M.A. (University of Texas), *Instructor in Spanish*

RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*

PATRICIA R. MILLAR, M.S.S. (Bryn Mawr College), *Instructor in Social Work and Social Research*

DORIS QUINN, M.A. (Oxford University), *Part-time Instructor in English*

PATRICIA HERLIHY, M.A. (University of Pennsylvania), *Part-time Instructor-elect in History for Semester II*

PETER JOHN LEACH, M.F.A. (Yale University), *Instructor-elect in English*

ANTHONY JOHN MARSHALL, M.A. (Oxford University), *Instructor-elect in Greek and Latin*

SUSAN WALSH, A.B. (University of Chicago), *Instructor-elect in French*

ELEANOR JANE WINSOR, M.A. (Yale University), *Instructor-elect in English*

UN-JIN PAIK ZIMMERMAN, PH.D. (Bryn Mawr College), *Part-time Instructor-elect in Chemistry*

FRITZ JANSCHKA, *Akademischer Maler (Akademie der Bildenden Künste), Artist in Residence*

WILLIAM H. REESE, PH.D. (University of Berlin), *Director of Orchestra*

ANN HARNWELL ASHMEAD, PH.D. (Bryn Mawr College), *Part-time Assistant in Classical and Near Eastern Archaeology*

PAUL BAINBRIDGE, B.A. (American University), *Part-time Assistant in Psychology*

ELIZABETH BANCROFT, A.B. (Vassar College), *Part-time Assistant in English*

- THERESA H. CARTER, PH.D. (Bryn Mawr College), *Part-time Assistant in Classical and Near Eastern Archaeology*
- JOHN CASSIDY, M.A. (Villanova University), *Part-time Assistant in Philosophy*
- PRISCILLA COHN, A.B. (Bryn Mawr College), *Part-time Assistant in Philosophy*
- STILES DEAN EZELL, A.B. (Lafayette College), *Part-time Assistant in Biology*
- ANN FAGAN, M.A. (Bryn Mawr College), *Part-time Assistant in History*
- MARY ANN FRITZ, M.S. (University of Pennsylvania), *Part-time Assistant in Biology*
- RICHARD A. GILLIS, A.B. (Kenyon College), *Part-time Assistant in Political Science*
- RICHARD STANDISH GOOD, M.S. (Pennsylvania State University), *Part-time Assistant in Geology*
- SADJA HERZOG, B.A. (Carleton College), *Part-time Assistant in History of Art*
- THOMAS HIGGINS, B.S. (St. Joseph's College), *Part-time Assistant in Physics*
- BEVERLY MARSTERS, A.B. (University of New Hampshire), *Part-time Assistant in Geology*
- JANE R. McCONNELL, PH.D. (Bryn Mawr College), *Part-time Assistant in Biology*
- SANDRA MILSTEIN, M.A. (Bryn Mawr College), *Part-time Assistant in Psychology*
- ROBERT E. NEEL, A.B. (Norwich University), *Part-time Assistant in Physics*
- FRANCES C. PASCALE, B.S. (Albertus Magnus College), *Part-time Assistant in Mathematics*
- JEANNETTE STOOPS, M.S. (Purdue University), *Part-time Assistant in Economics*
- IMRE SZALAI, A.B. (North Central College), *Part-time Assistant in Physics*

JEWEL W. TEMPLETON, A.B. (Wilson College), *Part-time Assistant in Chemistry*

PRISCILLA WATSON, A.B. (Reed College), *Part-time Assistant in Physics*

CLELIA S. WOOD, M.A. (Bryn Mawr College), *Part-time Assistant in Chemistry*

Officers of Administration

MARIAN CARTER ANDERSON, B.S. (Simmons College), *Recorder of the College*

CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*

LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*

KATHERINE A. GEFFCKEN, PH.D. (Bryn Mawr College), *Assistant Dean of the College*

CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*

PAUL W. KLUG, C.P.A., B.S. (Temple University), *Comptroller*

JULIE E. PAINTER, A.B. (Bryn Mawr College), *Assistant to the Director of Admissions*

CLARISSA WARDWELL PELL, *Executive Director of the Resources Committee*

PATRICIA ONDERDONK PRUETT, M.A. (Bryn Mawr College), *Assistant Dean of the College*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

Library

JANET MARGARET AGNEW, B.L.S. (McGill University), M.A. (University of Manitoba), *Head Librarian*

PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

- DOROTHY V. McGEORGE, B.S.L.S. (Drexel Institute), *Order Librarian*
- YILDIZ VAN HULSTEYN, M.S.L.S. (Drexel Institute), *Librarian, West Wing*
- LOIS E. WELLS, M.S.L.S. (Drexel Institute), *Assistant in Circulation Department*
- SHEILA M. CARSON, M.L.S. (Simmons College), *Assistant in Cataloguing Department*
- ELIZABETH C. E. GREENALL, M.L.S. (McGill University), *Assistant in Cataloguing Department*
- MARION C. MADER, M.S.L.S. (Drexel Institute), *Assistant in Cataloguing Department*
- ETHEL W. WHETSTONE, A.B.L.S. (University of North Carolina), *Circulation Department*

Foreign Students

- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

Halls of Residence

- ANN BISHOP, M.A. (University of Pennsylvania), *Warden-elect*
- DULCIE GROVES, B.A. (University of Nottingham), *Warden of Denbigh*
- ARLENE KRIMGOLD, A.B. (Tufts University), *Warden-elect*
- MARYANN ROBBINS, M.A. (University of North Carolina), *Warden of Merion*
- CORNELIA SARVAY, B.A. (Sophie Newcomb College), *Warden-elect*
- SHARON WALL, B.A. (University of Michigan), *Warden-elect*
- MARCIA VOGEL, M.A. (Bryn Mawr College), *Senior Resident of the Graduate Center*

Health

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physician*

FRIEDA W. WOODRUFF, M.D. (University of Pennsylvania), *Assistant College Physician*

JOHN F. HOWKINS, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ETHEL GRANT, *Instructor in Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Director*

ELIZABETH PRESTON, M.S.S. (Bryn Mawr College), *Social Caseworker*

ELIZABETH WHEELER, M.S.S. (Bryn Mawr College), *Social Caseworker*

ANDRINA DUFF, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

ELIZABETH EMLÉN, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

VIRGINIA G. KEEN, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*

BEATRICE SCHNEIDER, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

- LELIA BRODERSEN, M.A. (Temple University), *Psychologist*
 ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*
 ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*
 CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*
 ELI HARMON, M.D. (Tulane University School of Medicine), *Consulting Psychiatrist*
 JONAS B. ROBITSCHER, M.D. (George Washington University), *Consulting Psychiatrist*
 HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*
 CAROL HATCH ROBERTS, A.B. (Wilson College), *Assistant in Psychology*

Phebe Anna Thorne School

- SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*
 GEORGIANNA ENGSTROM, A.B. (University of Minnesota), *Assistant Teacher*
 KATHARINE N. MCLEAN, A.B. (Bryn Mawr College), *Assistant Teacher*
 CAROLYN SHANE, A.B. (Boston University), *Assistant Teacher*

Committees

The Graduate Committee

- PRESIDENT MCBRIDE,
Chairman
 DEAN BLISS, *Vice-Chairman*
 MISS MARTI
 MR. BERRY
 MR. BITTERMAN
 MR. SPRAGUE
 MR. MITCHELL
 MR. SCHNEIDER

The Graduate Scholarships Committee

- DEAN BLISS, *Chairman*
 PRESIDENT MCBRIDE, *ex-officio*
 MR. LEBLANC
 MR. KLINE (Semester II)
 MR. CONNER
 MR. SCHMIDT (Semester I)

The Graduate School

ADMISSION

THE GRADUATE SCHOOL is open to qualified graduates in liberal arts and sciences, men and women, from colleges or universities of acknowledged standing. Application for admission, to be made to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania, should be supported by official transcripts of the student's full academic record and by letters from the dean and from two or more professors of the applicant's undergraduate college. Applications should be filed, complete, by the dates specified on pages 2 and 3.

Admission to graduate courses is under the jurisdiction of the various departments which may, at their discretion, require students whose preparation is insufficient to pursue certain introductory courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the prerequisites may on application to the Graduate Committee be enrolled as candidates for the Degrees of Doctor of Philosophy, Master of Arts or Master of Social Service.

Graduate Record Examination. The Bryn Mawr Graduate School recognizes as contributory evidence of the qualifications of a student for admission a record of attainment in the Graduate Record Examination as prepared and administered by the Educational Testing Service. The examination is a convenient method by which a student may supplement transcript records. (See requirement in the Department of Education and Child Development.) Applicants for admission to the Graduate School who wish to take the examination should apply directly to the Graduate Record Examination, P.O. Box 592, Princeton, N. J., where full information may be secured and arrangements for taking the test may be made.

REGISTRATION

Every graduate student must register for courses at the Office of the Dean of the Graduate School if possible in the opening week of the semester, certainly within the first two weeks. Permission to take advanced undergraduate and graduate courses must be secured from the various departments. Changes in registration must be approved by the Dean.

Program of Study

THE GRADUATE PROGRAM is planned to give students a small number of hours in the seminar (usually not more than six hours) and ample time for individual work under the guidance of members of the faculty. Graduate students work in seminar rooms and laboratories close to the offices of members of the faculty and have abundant opportunity for conference and discussion.

Seminars and graduate courses are described under the announcements of the Departments. They are open to properly qualified first-year as well as more advanced graduate students.

Three units of graduate work constitute a full program. Instead of a seminar or graduate course, students may take for graduate credit:

1. A supervised unit of graduate work, equivalent to a seminar or graduate course, planned and examined by an instructor but carried on independently by the student. Such work may consist of reading with assigned reports, research with results submitted or a combination of both.
2. An advanced undergraduate course with additional work. Advanced undergraduate courses are sometimes elected to complete the student's prerequisites or to provide essential training in an allied field. One such course, accompanied by additional work, may, with the approval of the major department, be included in the M.A. program. Such undergraduate courses are included with the graduate courses in this Calendar.

Journal Clubs and Colloquia. In many departments the instructors and graduate students meet from time to time to discuss current research or to review recent publications in their field of study. Students will be notified by their respective departments of arrangements for their Colloquia or Journal Clubs.

Prerequisites. The prerequisites for graduate courses are established by the various departments. In special cases, with the approval of the department concerned, work in related subjects may be accepted in lieu of the stated prerequisites.

Grading. Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. The University charges a small general fee for the use of the Library, a \$5.00 library deposit, which is refundable, and fees for lateness. Since the University of Pennsylvania opens early in September, students coming to Bryn Mawr for the first time will not be able to take courses at Pennsylvania until the second semester.

SUMMER WORK

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their research during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of the instructors. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances.

The Degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service

BRYN MAWR COLLEGE awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The course of study for the degree of Doctor of Philosophy at Bryn Mawr College is designed to prepare the candidate for a professional career as a scholar. The course offers the student the opportunity to acquire a broad general background in chosen fields of knowledge and practice in research in these fields. The degree is awarded after the student's general knowledge and ability in research have been tested by examination and by a dissertation.

The candidate for the Ph.D. degree should have ability of high order, intellectual curiosity and critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The regulations for the Ph.D. degree are described in detail in a special pamphlet which will be given to applicants for candidacy. The general requirements, to which should be added those of the various departments, are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.
2. A course of study requiring a minimum of three full years of work beyond the A.B. degree in major and allied fields; for graduates of other colleges, two of these years must be spent in the Graduate School of Bryn Mawr College but for candidates

who have held academic appointments at Bryn Mawr College and occasionally for others this requirement may be reduced by the Graduate Committee; for candidates who hold the A.B. degree from Bryn Mawr College, one full year of graduate work at Bryn Mawr is required. Although there are no formal course requirements for the Ph.D. degree, students will ordinarily find it advisable to complete six or seven units of graduate work.

3. The recommendation of the student as a candidate by the director of the dissertation and the major department and the acceptance of the recommendation by the Graduate Committee. Application for candidacy, on a form to be obtained at the Graduate Office, may be made as early as the spring of the student's first year in the Graduate School.

4. A reading knowledge of two modern languages, tested by written examinations in the translation of texts in the field of the major subject.* These examinations must be passed before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the candidate's major and allied fields. This examination, consisting of several written examinations, and, at the option of the department, an oral examination, is intended to test the candidate's general knowledge of the fields rather than familiarity with particular courses.

6. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Microfilming is accepted as a method of publication.

* See the statements under the Departments for the language requirements. For the Ph.D. in Social Work only one modern language is required.

Students whose mother tongue is not English may, with the approval of their department, be excused from one of these language examinations. (They may not offer their own language.)

THE DEGREE OF MASTER OF ARTS

The degree represents the completion of a coordinated program of graduate work which, for a well-prepared candidate, requires a minimum of a full year of graduate study. Work for the degree may be spread over several academic years which need not be in succession but must be included in a five-year period. Only courses taken at Bryn Mawr College are credited for the degree.

Prerequisites. The prerequisite for the M.A. degree is an A.B. degree or its equivalent from an American college of recognized standing or a degree or certificate of the same standard from a foreign university. The preparation must include such undergraduate work in the candidate's major subject and allied fields as the various departments shall require.

Application. The candidate applies for the degree in the department of the major work, must receive the endorsement of the department for the program of work and must be accepted by the Graduate Committee. The application and the program endorsed by the major department must be submitted to the Dean of the Graduate School not later than December 1st of the academic year in which the candidate wishes to take the degree. Application forms are supplied by the Graduate Office.

Language Requirement. A reading knowledge of two modern languages is in general required of all candidates.* Students in Economics and Education may offer Statistics instead of the second language. In Psychology and Sociology, Statistics is required and the language requirement is reduced to one. Candidates whose major work is in a modern language must offer a reading knowledge of two other languages.

The language requirement is met by passing a written examination set by the major department in reading, at sight and with a dictionary, technical material in the candidate's major field.

Examinations in languages, and in the techniques which in certain departments may be substituted for one language, will be held three times each year, in October, January and April. At

* See the statements under the Departments for the departmental language requirements.

least one of the examinations must be taken not later than the October period of the academic year in which the degree is to be received. All departments except Biology, Classical Archaeology, Mathematics and Spanish require that at least one shall be passed by that time. No candidate may receive the degree in any academic year unless both examinations have been passed by the January examination period, or, in special cases approved by the major department and the Graduate Committee, permission has been obtained to postpone one until the April period.

Students are expected to prepare for these examinations before entering upon the work for the M.A. degree and are strongly urged to take both examinations in October. *Students who do not meet the two requirements in languages and techniques in October may find it impossible to carry a full program and complete the requirements for the degree in one year.*

Students whose mother tongue is not English may be excused from one of these language examinations.* Instead they will be asked to take an examination in English at the beginning of the academic year. Later in the first semester the students' departments will be asked to certify that their English meets the departmental requirement. This special regulation for foreign candidates does not prevent a department from refusing to admit students to any seminar for which their language proficiency is inadequate.

Program of Work. The candidate's program must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major department. If undergraduate courses are included in this last unit, they must be supplemented by organized individual work. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School. Candidates may take their three units of work in one major department or two in a major department and one in an allied field. Candi-

* They may not offer their own language.

Foreign students in the Department of Psychology will meet the requirement with Statistics; students in the Department of Education may do so if they prefer; students in the Department of Sociology may do so if their native language is French or German.

dates whose major department conducts a Journal Club or Colloquium are expected to include it in their registration.

Special Field. The candidate shall, in consultation with the major department, select a special field for the M.A. paper and the Final Examination. It is expected that this field will normally relate to one of the seminars or units of graduate work in the candidate's program.

Final Requirements.

1. *Courses.* Before the Final Examination period, candidates must have completed to the satisfaction of their instructors the courses registered for the degree. No candidate will be admitted to the Final Examination if one of these courses is reported as unsatisfactory.

2. *Paper in the Special Field of the Student's Major Subject.* Every candidate must present a paper in the special field. The paper may take the form of a report on a special piece of investigation carried on throughout the year or during a definite period, or of a problem which is assigned to be completed during a specified limit of time.

3. *An Examination.* Every candidate must pass a Final Examination which shall test her ability to place the special field in the general background of the major subject.

The Final Examination may not be taken until

- (1) the language requirements have been met;
- (2) the three units have been reported as satisfactory;
- (3) the paper in the special field has been accepted.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the professional degree of M.S.S. is designed to prepare men and women for Social Casework, Community Organization and Social Research. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in social casework, provision is made for concentration in the following specific fields: Child Welfare, Family Welfare, Medical and Psychiatric Social Work. At the discretion of the

faculty, a few second-year M.S.S. students will be allowed to concentrate in Social Work Research. This concentration involves a specially designed course program and a one-year field study. The latter replaces the normal field instruction requirements in the second year, and the research report deriving from it constitutes the student's thesis.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from an American college of recognized standing, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences is usually required, although in exceptional cases this requirement is waived. There are no language requirements for the M.S.S. degree. All first-year M.S.S. students must pass an examination in statistical concepts given at the end of the non-credit course, Introduction to Statistical Concepts.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework, group work or community organization as the principal course in social work methods. The first-year courses are:

Social Welfare Policy and Services—Introduction

Normal Growth and Behavior

Pathology in Growth and Behavior

Community Organization I

Social Group Work I

Social Research I

Social Casework I

Social Casework II or Social Group Work II

Introduction to Statistical Concepts (non-credit)

Field Instruction throughout the two semesters in either
Social Casework, Social Group Work or Community
Organization.

The courses in the second year are in part determined by the area of practice of the student, that is, social casework, community organization or social research. The courses required of all students include:

Public Social Services

Social Issues and Social Policy

Thesis Seminar.

Other second-year courses will be selected from the following:

- Psychoanalytic Concepts Applied to Social Work Practice
- Social Science Concepts and Social Work Practice
- Community Organization II and III
- Social Change
- Social Casework III and IV
- Field Instruction during each semester in Community Organization, Research or Social Casework.

Requirements for Degree. Candidates for the M.S.S. degree must have completed a minimum of 18 semester courses, including designated field work; they must prepare a Master's paper and pass a Final Examination which tests their ability to place their special fields in the general background of social work.

Special Part-time Program. It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.

RESEARCH IN COMMUNITY WELFARE

With the assistance of a grant from the Lilly Endowment, Inc. an advanced program to train students for community welfare research was established in the fall of 1960. Associated with the Department in this program is the Health and Welfare Council, Inc., Philadelphia.. Applicants may offer a Master's degree in Social Work or a Master's degree in a social science.

The goal of the program is to prepare qualified professional personnel to fill research positions in community welfare planning councils throughout the country. The program includes concurrent graduate study and field instruction in the Research Department of the Health and Welfare Council, Inc., Philadelphia. While this specific program is designed on a one-year basis, it may be developed as part of a plan for the Ph.D. degree.

Fees and Residence

FEES

THE TUITION FEE for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work, is \$350 a year or \$175 a semester. In the Department of Social Work and Social Research the part-time fee is \$270 per course per year—or \$135 a semester.

Beginning with 1963-64, the tuition fee will be increased to \$1300 for full-time work or \$450 per unit for part-time work. Fellowships and scholarships will also be increased by \$300.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field work in the Department of Social Work and Social Research are charged a fee of \$10 a semester for each such course taken during the academic year and a fee of \$10 for summer field work. This fee covers a part of the expenses of field supervision. In addition students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

Students taking undergraduate courses in the sciences (not for graduate credit) are charged laboratory fees at \$10 per course per semester, or \$25 per semester for three courses.

Students whose fees are not paid before November 15 in the first semester and before March 15 in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence or dismissal or for any other reason.

The graduation fee for Doctors of Philosophy, Masters of Arts, and Masters of Social Service is \$20.00.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Regular

Tuition Fee	\$1000
Residence (including health service)	1000

Contingent

Dispensary Fee (for non-resident students)	15
Social Work Field Instruction Fee	20
Graduation Fee	20
Expenses, Christmas and spring vacations, commuting	variable
Laboratory Fees for undergraduate courses (not for grad- uate credit) , per course per year	20

THE GRADUATE CENTER

Residence for forty-five women graduate students is provided in the Graduate Center which lies at the north end of the campus, about an eight-minute walk from the Library. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five women students the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms—a large living room and the Manning-Smith recreation room—are available to all members of the Club. The dining room, which seats sixty, is open to students living outside the Center who wish to lunch or dine there. For the residents there are smoking rooms and tea pantries. The bedrooms are fully furnished except for curtains and rugs. Bed linen, including blankets, is provided but students should bring towels. Because of college fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The deposit will be deducted from the residence fee; it will not be refunded under any circumstances.

A student who has reserved a room in the Graduate Center will be held responsible for the residence charge unless she sends notice of withdrawal, in writing, to the Dean of the Graduate School before September first. Appropriate reduction or remission of the residence fee will be made if the College is able to reassign the room to another student not already accommodated

in the Center. The student herself is not entitled to dispose of the room she leaves vacant. Appropriate reduction or remission will be made for that portion of the residence fee which represents the cost of food. A student in residence who is absent from the College for six weeks or more because of illness will also be granted a proportionate reduction for food. Allowance cannot be made for dietary restrictions.

The regular charge for residence (room, board and health service) for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second.

Residence in the Center is for the academic year only—from the opening of college in the fall until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who wish to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will not be accepted at the College before September 15. It should be sent prepaid, addressed to the Graduate Center.

There is no hall of residence for men. They and other non-resident students must make their own living arrangements. Lists of accommodations may be seen in the Comptroller's Office.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

GRADUATE CLUB

All graduate students residing in the Center are members of the Graduate Club and non-resident students, men or women, may become members. The organization of the life of the graduate students in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the College as a whole.

EXCLUSIONS

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Fellowships and Scholarships

THE COLLEGE awards, on the basis of academic excellence, about sixty graduate scholarships and fellowships to women who are graduates of accredited colleges or universities. Some awards are open to men on the same basis. The various types of awards are described below.

APPLICATION

Applications for fellowships and scholarships* should be made to the Dean of the Graduate School and must be filed complete not later than March first preceding the academic year for which they are desired. The documents are the same as for admission. Blanks are forwarded to all applicants by the Graduate Office. Awards are announced each year on April first and recipients should signify their acceptance or refusal by April fifteenth.

Completed applications for scholarships for foreign women must be received not later than January twenty-fifth. The applicants will be informed of the action taken early in March.

FELLOWSHIPS

Twenty-three Fellowships, value \$2500 each, are offered annually in Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Educational Psychology, English, Geology, German, Greek, History, History of Art, Latin, Mathematics, Mediaeval Studies (the Howard Lehman Goodhart Fellowship), Music, Philosophy, Physics, Political Science (the Justus C. Strawbridge Fellowship), Psychology, Romance Languages (two fellowships), Russian, Social Work and Social Research (the Carola Woerishoffer Memorial Fellowship), and Sociology and Anthropology. They are awarded on the basis of merit and are open to American and Canadian women who are graduates of colleges of good standing, and who have completed at least one full year of graduate work.

* Beginning with 1963-64, the tuition fee will be increased to \$1300 for full-time work or \$450 per unit for part-time work. Fellowships and scholarships will also be increased by \$300.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year the Alumnae of the College established a fund for a graduate Fellowship in honor of Katharine Elizabeth McBride, President of the College.

The Margaret Gilman Fund. An additional Fellowship or Scholarship in French, open to both men and women, is awarded from the interest on this fund, which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

The Theodore N. Ely Fund. An additional Fellowship or Scholarship in Art or Archaeology is awarded from the interest on this fund, which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

The S. Maude Kaemmerling Scholarship was established in 1959 by a gift from the estate of S. Maude Kaemmerling. The income on this fund is to be used for graduate Scholarships and Fellowships.

Fellows by Courtesy

Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.

GRADUATE SCHOLARSHIPS

Twenty-one Graduate Scholarships, value \$1800 each, are offered annually to women for work in any department of the Graduate School. Holders of these scholarships in their first year of graduate work at Bryn Mawr are required to live at the Graduate Center. Others may elect to do so. The stipend covers tuition and part of the residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. In that case tuition and dispensary fees will be deducted from the stipend and the balance paid the student in November and March.

The College also offers several Graduate Scholarships, value \$1800 each, to men. Tuition and dispensary fees will be deducted from the stipend and the balance paid the student in November and March. There is no hall of residence for men.

TUITION SCHOLARSHIPS

Eight scholarships providing free tuition are available to men and women whose homes are in the neighborhood.

SCHOLARSHIPS FOR FOREIGN WOMEN

Ten scholarships are especially designated for foreign women who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend of \$2000 which covers full tuition and residence in the Graduate Center during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) A student who holds a scholarship for a second year may live off campus if she prefers. Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. At times an advanced undergraduate course may meet the student's needs better than a graduate seminar; in that case she will make extra contributions in order to bring the work to the graduate level. Most of the formal work, however, is given in seminars. These are best described as small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to understand it and speak it fluently. For a full statement of the graduate program and requirements, reference should be made to the preceding pages and to the departmental announcements.

The Marguerite N. Farley Scholarships for Foreign Women. Five foreign scholarships, of the value of \$2000, are offered to women from any country outside the United States and Canada.

A Special British Scholarship, of the value of \$2000, is reserved for a candidate from Great Britain sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of \$2100 each, have been established for students whose languages form part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has

been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

SCHOLARSHIPS AND FELLOWSHIPS UNDER THE PLAN FOR THE COORDINATION OF THE SCIENCES

The several departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in fields such as biochemistry, biophysics, geochemistry, geophysics, psychophysics.

Scholarships of \$1800 each are open to qualified students who have had undergraduate training in two or more of the natural sciences and who wish to continue study in a field that includes both of them.

Scholarships may also be awarded to students planning to specialize in one science only, but desiring further training in a related science. Students who wish to begin preparation in one or more of the natural sciences are also eligible for scholarships and on this plan such students, who are essentially taking a "Fifth-Year" of undergraduate work, are considered special graduate students whose program will not lead to a higher degree in their first year in the Graduate School.

Two fellowships of the value of \$2500 each in the same fields are also offered to candidates who, in addition to undergraduate training, have had at least a year of graduate work in science.

These Scholars and Fellows will pay the regular tuition of \$1000 a year. For residence in the Graduate Center an additional \$1000 would be charged.

Occasionally a post-doctoral Research Fellowship is offered to a candidate who wishes to work in a borderline field, as outlined above, or one who, while working in one science, wants to utilize methods or tools of another science for a specific research problem.

The scholarships and fellowships under the Plan for the Coordination of the Sciences are open to men as well as women.

The Helen Schaeffer Huff Memorial Research Fellowship. This fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be \$4500. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires.

SOCIAL WORK AND SOCIAL RESEARCH

The Carola Woerishoffer Fellowship in Social Work and Social Research, of \$2500, is offered annually to a student in the Department.

The Carola Woerishoffer Scholarship in Social Work and Social Research, of \$1800, is offered annually to a student in the Department.

Agency Fellowships and Scholarships. A number of scholarships ranging in value from \$500 to \$2400 are offered by various agencies in Philadelphia and vicinity to second-year graduate students, men and women, who wish to be candidates for the degree of Master of Social Service. These agency scholarships and fellowships frequently call for field work placement in the agency giving the grant, and in some cases require an agreement relative to employment for one year following the holding of a grant.

Federal Stipends. The United States Public Health Service offers traineeships of \$1800 for first-year students, and \$2000 for second-year students, both men and women. The holders of such stipends must have career objectives in psychiatric social work.

The Office of Vocational Rehabilitation offers traineeships of \$1800 and \$2000 for first- and second-year students respectively. Holders of such stipends must have career objectives in rehabilitation.

Traineeships of \$2400 for the third year and \$3600 for the fourth year of study are also available from the United States Public Health Service to advanced students who meet certain requirements and are beginning work for the Ph.D. Application to the Department for such traineeships is necessary by November first of the year preceding the proposed year of study.

Both local agency stipends and Federal traineeships are awarded to the student by the Department.

The Alumni Association of the Department of Social Work and Social Research usually provides a tuition scholarship open to either first- or second-year students.

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of \$2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

TRAVELLING FELLOWSHIPS

The Fanny Bullock Workman Fellowship, value \$2400, for a year of study or research abroad was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a candidate for the degree of Doctor of Philosophy at Bryn Mawr College who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

The Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs. Anna Woerishoffer of New York City in memory of her mother, is to be applied to the expenses of

study and residence for one year at some German university. It is awarded annually to a candidate who has completed at least one year of graduate study at Bryn Mawr College, on the basis of evidence regarding her ability to conduct independent investigations in the fields of Teutonic Philology or German Literature. The choice of a university is determined by the holder's preference, subject to the approval of the Faculty.

The Ella Riegel Fellowship or Scholarship in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology and only to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

DUTIES OF FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Fellows and Scholars assist occasionally in the conduct of examinations. Holders of fellowships may be asked to give as much as an hour and a half a week to special work for their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Dean of the Graduate School, make their own arrangements to do a limited amount of paid work. Each Travelling Fellow is asked to present a written report of her work during her year on the fellowship. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student's department.

GRADUATE PRIZE

The Susan B. Anthony Memorial Prize, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by the Committee of which the President of the College is chairman. The value of the prize is determined by funds available from the income of the gift to the College.

EMMY NOETHER FELLOWSHIP IN MATHEMATICS

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the U.S.A. or in a foreign country.

GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund from which grants-in-aid may be made. These grants, not to exceed \$400, are given on the basis of need to holders of scholarships to help them meet college expenses. Application forms may be obtained from the Graduate Office; they should be submitted by April fifteenth.

GRADUATE ASSISTANTSHIPS

Teaching Assistantships are available to graduate students in the Departments of Biology, Chemistry, Education, Geology, Physics, Psychology and Social Work. The positions carry salaries of \$2000-\$2200 for half-time work (\$1350-\$1400 for one-third) and include free tuition for half to two-thirds time graduate work. They provide teaching and laboratory experience outside the classroom, mainly in the undergraduate laboratories.

Research Assistantships are available in Chemistry, Physics, Psychology and Social Work. These are usually for half-time work and provide half-time free tuition in addition to salaries of \$2000-\$2200. A few of these positions, in Psychology and in Social Work, offer higher salaries.

Other Assistantships, usually for one-third time work and paying \$1350-\$1400, are offered in the Departments of Economics, Education, History, History of Art, Mathematics, Philosophy, Political Science, and Sociology and Anthropology. The duties of assistants differ in different departments. In all departments, the assistant is entitled to carry on graduate study for which tuition is remitted.

Loan Funds

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

The committee in administering this money follows a definite policy, designed to serve the best interests of the students concerned. Loans may be used for any purpose approved by the committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1500.

While the student is in College no interest is charged; after the student leaves College the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, The Deanery, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be observed in awarding such loans:
 - a. To students coming from New Jersey.
 - b. To students coming from Missouri.
 - c. To students coming from any other location who have had not less than one year of residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a Committee appointed by her from time to time.
3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.
4. These loans shall be used primarily to enable the exceptional student to continue her studies which otherwise would be prevented through lack of means.
5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

MEMORIAL LOAN FUNDS

The Bertha Goldstein Memorial Loan Fund, the Rachel Pflaum Memorial Loan Fund and the Ethel Rupert Loan Fund are revolving funds from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans may be made to graduate students in that Department. Loans are made without interest and must be repaid within one year after completion of study at Bryn Mawr.

The Bureau of Recommendations

The College conducts a Bureau of Recommendations for alumnae, students, and former students. This Bureau offers an employment service for permanent, temporary, and part-time positions; gives assistance in choosing a vocation; and acts as a clearing house for letters of recommendation for those who have registered with the Bureau. These letters will be sent, upon request, to prospective employers, placement offices of other colleges, and employment agencies.

Students of foreign citizenship are advised that government regulations severely limit their employment in this country.

The Library

THE M. CAREY THOMAS LIBRARY containing about 285,000 volumes has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad. For the use of graduate students there are twelve seminar rooms and, in addition, a limited number of carrels in the stacks. The scientific libraries are described on page 50.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Rooms are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference and current periodicals. There is a large reading room with individual desks.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the two Rare Book Rooms unusual bibliographical items are shelved and displayed: early printed books, manuscripts, first editions, fine press books, and association copies. Exhibitions of the Library's own material and material lent by friends of the Library are displayed here at intervals during the academic year. Here also are incunabula numbering over nine hundred volumes, the gift of Howard L. Goodhart. This collection, known as the Marjorie Walter Goodhart Mediaeval Library and consisting mainly of philosophical and theological works printed in the fifteenth century, is outstanding among college library collections.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue at the University of Pennsylvania volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has recorded over 3,500,000 titles in

the region by which research workers are aided in bibliographical problems outside the scope of any one library. Through this channel the great collections of the University of Pennsylvania, the Free Library of Philadelphia, the Historical Society of Pennsylvania as well as the Library Company of Philadelphia, the American Philosophical Society, the Franklin Institute, the Academy of Natural Sciences, the College of Physicians, Swarthmore College and Temple University are made available. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

ART AND ARCHAEOLOGY COLLECTIONS

A small but valuable group of original works of art, available for study, include Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology contains the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles, and ceramics includes material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

Laboratories

THE natural science departments occupy three buildings. Mathematics, Physics and Psychology are in Dalton Hall, the original science building opened in 1893 and remodeled in 1939 and again in 1958. The Science Center contains the Marion Edwards Park building for Chemistry and Geology and a building completed in 1958, for Biology. A proposed building for Physics and Mathematics will bring five of the departments together.

In all three buildings there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.

In Dalton Hall, there is a machine shop with an expert machinist in charge and a student workshop available to graduate students. Rooms in the Biology Building were especially designed for work with radioactive materials, for microphotography and for glass blowing.

Each science department has its own well-stocked library, which includes the appropriate scientific journals. In addition, the Department of Geology has over 25,000 maps, on deposit from the U. S. Army Map Service. The Department's large collection of minerals has been greatly enhanced by the gift of the Mineral Collection of George Vaux, Jr.

Health

ALL GRADUATE students, whether resident or non-resident, must file a physician's certificate stating that they have been vaccinated against smallpox during the year before entrance to the Graduate School and exhibited a typical or immune reaction to this vaccination. Students who do not have this certificate will be vaccinated at the time of their entrance physical examinations and charged a fee of one dollar. Non-residents will not be permitted to register without this certificate. There is no exception to this rule.

Every entering resident graduate student is required to file at the office of the Dean of the Graduate School, on a blank supplied by that office, a report of a recent medical examination, filled in and signed by a physician.

Resident students must present on a separate blank a statement of immunization against tetanus by toxoid, evidence of a negative Schick test, or immunization against diphtheria, and a Mantoux test within one year of entrance. If the Mantoux test is reported positive a chest X-ray is required. If these tests have not been done by the time the student arrives in Bryn Mawr, they will be done at the time of the initial physical examination at a fee of one dollar for each test. The chest X-ray will be taken at Bryn Mawr Hospital at the student's expense.

Every resident graduate student must file a certificate stating that her eyes have been examined by an ophthalmologist within six months before entrance to the Graduate School. Failure to comply with the above rule entails an examination by one of the college consultants for which the student will be charged as a private patient by the ophthalmologist making the examination.

Every entering resident graduate student is examined by the College physician, with reference to physical development and general health. Second- and third-year residents whose health records have been approved by a College physician are not examined. Any graduate student who at the time of the examination or at any time during the year is not in good health is placed on the health supervision list.

The College maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The College physicians and psychiatrists may be consulted without charge by students who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is necessary. The Infirmary is open when college is in session and in the spring vacation. It is closed during Christmas vacation.

The residence charge paid by each resident graduate student entitles her to treatment in the college dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College physicians during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. The fee for each day in the Infirmary after the seven-day period is nine dollars. In case of contagious disease special nursing is obligatory and the student must meet this expense.

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$15 for a full year starting October 1st. Students should apply to the Comptroller of the College.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of \$15, which entitles them to care and consultations by the College physicians and psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. *Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.*

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

Announcement of Courses

1962-1963

The following is a list of the seminars and graduate courses and of undergraduate courses which can be expanded to count for graduate credit. It is the practice of most departments to vary the graduate courses and seminars from year to year. The announced order may be changed either because of changes in the teaching staff or in order to meet the needs of the students.

Square brackets enclosing the titles of courses indicate that, although the courses are regular parts of the program, they are not given in the current year.

Undergraduate courses in each department are numbered according to the following system: 301, 302, etc. indicate advanced undergraduate courses; the letter "a", following a number, indicates a half-course given in the first semester; the letter "b", following a number, indicates a half-course given in the second semester; the letter "c", following a number, indicates a half-course given two hours a week throughout the year. For a full announcement of undergraduate courses see the Calendar of Undergraduate Courses.

Biology

PROFESSORS:

MARY S. GARDINER, PH.D.,
Chairman

L. JOE BERRY, PH.D.

JANE M. OPPENHEIMER, PH.D.

DEAN OF THE GRADUATE

SCHOOL AND PROFESSOR: ELEANOR A. BLISS, Sc.D.

ASSOCIATE PROFESSOR: ROBERT L. CONNER, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Biology, Zoology or Zoology and Botany, including courses in General and Organic Chemistry. Some preparation in Mathematics and Physics is desirable. Students with majors in other subjects may be admitted but will be required to make up any deficiencies in their preparation in Biology before being admitted to graduate courses.

Major and Allied Subjects. Candidates for the M.A. and Ph.D. degrees may specialize in Biochemistry, Cytology, Experimental Embryology or Physiology but must take work from areas not chosen for specialization. Allied subjects may also be selected from fields in Chemistry and Physics and in special cases, with the approval of the Graduate Committee, from other related fields.

Language Requirements. Candidates for the M.A. and Ph.D. degrees should offer French and German. Other languages may be accepted by special permission of the Department and the Graduate Committee.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the work may be completed in one year by full-time students, it may be extended over two or more years and students with incomplete preparation may find such extension necessary. The

Final Examination consists of a three-hour written examination covering the areas of study and an oral examination concentrating particularly on the interpretation and significance of the experimental problem.

Examinations for the Ph.D. The Preliminary Examination for the Ph.D. consists of three written examinations, each of four hours' duration, and an oral examination of one to two hours. These examinations will cover the areas included in the course work in the major and allied fields. After the subject of the dissertation has been decided, the student will meet with the faculty of the Department to outline and discuss the subject and the proposed plan of research. The Final Examination is oral, covering the subject of the dissertation in relation to general biological problems.

SEMINARS AND GRADUATE COURSES

All advanced undergraduate courses may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor and completed by the student.

Seminars are offered in the following fields. The topics considered in any year are selected in accordance with the needs and desires of the students enrolled.

Mr. Conner: *Biochemistry (offered in 1962-63)*

Selected topics in intermediary metabolism.

Biochemical techniques.

Cellular Physiology.

Miss Gardiner: *Cytology (offered in 1962-63)*

Cell structure and function.

Cytological aspects of normal and abnormal growth.

Histogenesis.

Problems in mitosis and meiosis.

Miss Oppenheimer: *Experimental Embryology (offered in 1963-64)*

Factors controlling growth and differentiation.

Form and function in animal development.

Gastrulation and organogenesis in vertebrates.

Morphogenesis in invertebrates.

Mr. Berry: *Physiology* (offered in 1963-64)

Kinetics of biological reactions.

Mechanisms of defense against infectious diseases.

Physiological techniques.

Physiology of micro-organisms.

Bacteriology

Miss Bliss: *Bacteriology* (Semester I)

Bacteria and antibacterial agents.

ADVANCED UNDERGRADUATE COURSES

[301. *Theories of Heredity*: Miss Gardiner.]

302. *Developmental Physiology*: Miss Oppenheimer.

303. *Physiology of Micro-organisms*: Mr. Berry.

[305. *Biochemistry*: Mr. Conner.]

Chemistry

PROFESSOR:

ERNST BERLINER, PH.D., *Chairman*

ASSOCIATE PROFESSOR:

GEORGE L. ZIMMERMAN, PH.D.

ASSISTANT PROFESSORS:

FRANK B. MALLORY, PH.D.

JOSEPH VARIMBI, PH.D.

LECTURER:

FRANCES BONDHUS BERLINER, PH.D.

VISITING LECTURER:

JOHN P. CHESICK, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate preparation in Chemistry including courses in general inorganic, analytical (qualitative and quantitative), organic and physical chemistry, college Physics and Mathematics (calculus). Students whose undergraduate training in Chemistry is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Major and Allied Subjects. Students may specialize in either Organic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics,

Physics, Inorganic Geology and a branch of Chemistry different from that of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department.

Language Requirements. Candidates for the M.A. or Ph.D must offer German, and either French or Russian.

Program and Examination for the M.A. Candidates will usually offer one seminar in their special field, another seminar or advanced undergraduate course in Chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally be expected to devote a large proportion of their time to the execution and interpretation of the experimental work, carried out under the supervision of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in Chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of two four-hour written examinations, one of which is in the major subject and one in the minor subject, and a third, oral examination, which constitutes a defense of a number of research proposals which had been submitted previously by the student. Four such proposals are required, two of which may be related to the student's thesis. For students who offer a minor subject in a department other than Chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that the same one is usually not repeated

within a three-year period. The topics listed below are given in one-semester seminars, counting one half unit of credit each.

Mr. Berliner: *Organic Chemistry*

Physical Organic Chemistry.

Physical-Organic Aspects of Aromatic Chemistry.

Structure and Physical Properties of Organic Compounds.

Mrs. Berliner: *Organic Chemistry*

Chemistry of Heterocyclic Compounds.

Natural Products.

Mr. Mallory: *Organic Chemistry*

Organic Photochemistry.

Radical Reactions.

Recent Methods in Organic Synthesis.

Mr. Varimbi: *Inorganic and Physical Chemistry*

Inorganic Chemistry.

Statistical Thermodynamics.

Theory of Solutions.

Mr. Zimmerman: *Physical Chemistry*

Chemical Kinetics.

Introduction to Chemical Physics.

Quantum Theory.

Biochemistry: See under Biology.

SELECTED UNDERGRADUATE COURSES

301b. *Inorganic Chemistry*: Mr. Varimbi.

302 [a and b]. *Advanced Organic Chemistry*: Mr. Mallory and Mrs. Berliner.

303a. *Chemical Thermodynamics*: (Instructor to be announced.)

303b. *Quantum Mechanics of Atoms and Molecules*: Mr. Zimmerman.

304a. *Applied Mathematics for Chemists*: Mr. Zimmerman, Mr. Varimbi.

Colloquium. All members of the Department and the graduate students, and often outside speakers, meet every week to discuss current research in chemistry.

Classical and Near Eastern Archaeology

PROFESSOR: MACHTELD JOHANNA MELLINK, PH.D.,
 Chairman

ASSISTANT PROFESSORS: KYLE M. PHILLIPS, JR., PH.D.
 BRUNILDE SISMONDO RIDGWAY, PH.D.

ELLA RIEGEL

MUSEUM ASSISTANT: ANN HARNWELL ASHMEAD, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin or History of Art. It is desirable that all students should have some knowledge of Greek.

Allied Subjects: Greek and Latin Language and Literature; an ancient Near Eastern Language and Literature; History of Art; Ancient History; Ancient Numismatics; Anthropology; a science integrated with the work of the major subject.

Language Requirements. German and one other modern language for the M.A.; for the Ph.D., a thorough reading knowledge of German and a reading knowledge of a second foreign language.

Program and Examination for the M.A. Three units of work in Archaeology or in Archaeology and an allied field. The Final Examination is written, four hours.

Program and Examinations for the Ph.D. There is no fixed course of study or time requirement for the degree; but at least one of the preparatory years should be spent at some Mediterranean center such as Athens or Rome, and at least one summer should be devoted to European museums. (The Department has in its award the Riegel Fellowship for study abroad.) Before being permitted to take their preliminary examinations, candidates must satisfy their instructors that they are familiar with the general scope and method of archaeological study, including excavational research; that they know where the original source materials are; and that they can make practical use of bibliographical references. They must also satisfy the Department by written examination that they have a general reading knowledge of ancient Greek or an ancient Near Eastern language.

The Preliminary Examination consists of four four-hour papers in such special fields as Greek and Roman sculpture, ancient architecture, Greek vase painting, numismatics, topography of classical sites, Aegean prehistory, Near Eastern archaeology, ancient Italy. One of the papers may be chosen from an allied subject; but none may deal with the same specific field as the dissertation, since this will be included in the final oral examination.

Cooperation with the Department of Classical Archaeology at the University of Pennsylvania. Attention is drawn to the courses in Classical Archaeology offered by the University of Pennsylvania. Under the Reciprocal Plan, students at Bryn Mawr College may register for a unit of work at the University of Pennsylvania or pursue research at the University Museum.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss Mellink:

Aegean Archaeology.

Hittite Art and Archaeology.

Oriental Relations of Early Greek Art.

The Archaeology of Syria.

Mrs. Ridgway:

Archaic Greek Sculpture.

Greek Architectural Sculpture.

Greek Sculpture of the Fourth Century B.C.

Mr. Phillips:

Hellenistic and Roman Mosaics.

Roman Painting.

ADVANCED UNDERGRADUATE AND FREE ELECTIVE COURSES

[202b.* *Cultural History of Archaeology*: Miss Mellink.]

203a. *Greek Sculpture*: Mrs. Ridgway.

203b. *Later Greek and Roman Sculpture*: Mr. Phillips.

301a. *Ancient Painting*: Mr. Phillips.

301b. *Ancient Architecture*: Mrs. Ridgway.

[302a. *The Greek Style in Art*: Miss Mellink.]

303. *Anatolian and Syrian Archaeology*: Miss Mellink.

Comparative Philology and Linguistics

PROFESSOR OF ITALIAN: ANGELINE HELEN LOGRASSO, PH.D.

VISITING PROFESSOR

OF FRENCH:

WILLIAM J. ROACH, PH.D.

ASSISTANT PROFESSOR

OF ENGLISH:

ROBERT B. BURLIN, PH.D.

ASSISTANT PROFESSOR

OF GERMAN:

WILLIAM Z. SHETTER, PH.D.

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject.

Prerequisites. The prerequisite is a good undergraduate major in any language or literature. For courses in Philology, see statements under the Departments of English, French, German, Italian and Spanish.

Economics

PROFESSORS:

MILDRED B. NORTHROP, PH.D.,

Chairman

JOSHUA C. HUBBARD, PH.D.

ASSOCIATE PROFESSOR:

MORTON S. BARATZ, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Economics with work in related fields such as History and Political Science. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Allied Subjects. Most subjects in the fields of the other social sciences, History and Philosophy, are acceptable as allied work. Mathematics, Statistics and Accounting are not only acceptable as allies but an adequate knowledge of one or more of these subjects is necessary to advanced work in Economics.

Language Requirements. For the Ph.D. two modern languages. For the M.A. two modern languages or one modern language and advanced statistics.

Program and Examination for the M.A. The program consists of three units of work in Economics or two in Economics and one in an allied field. One unit must be in Economic Theory. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examinations for the Ph.D. The Preliminary Examination consists of four three-hour written examinations, two of which must be in Economic Theory and The History of Economic Thought. The other two fields are selected by the student in consultation with members of the Department. Candidates for the Ph.D. are expected to have an adequate knowledge of Statistics and Mathematics and in some cases of Accounting. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study.

Miss Northrop:

Comparative Economic Systems.
The Development of Underdeveloped Areas.
The History of Economic Thought.
International Economics.

Mr. Hubbard:

Business Cycles and Full Employment.
Contemporary Economic Theory.
Economic Dynamics.
Money and Banking.

Mr. Baratz:

Government and Business.
Industrial Structure and Market Behavior.
Prices and Price Theory.

SELECTED UNDERGRADUATE COURSES

- [301a. *History of Economic Thought*: Miss Northrop.]
- 301b. *Contemporary Economic Thought*: Mr. Hubbard.
- 302a. *Comparative Economic Systems*: Miss Northrop.

Journal Club. Students and members of the faculty in the Department together with those in the Departments of History and Political Science meet four or five times a year to discuss research in progress, or recent books or projects of interest.

Education and Child Development

PRESIDENT OF THE
COLLEGE:

KATHARINE ELIZABETH MCBRIDE,
PH.D., LL.D., L.H.D., SC.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D.,
Chairman

LECTURER AND DIRECTOR,
THORNE SCHOOL:

SUSAN E. MAXFIELD, M.S.

LECTURER:

MILTON BRUTTEN, PH.D.

ASSISTANT PROFESSOR:

ETHEL W. MAW, PH.D.

ASSISTANT:

LELIA BRODERSEN, M.A.

ASSOCIATE PROFESSORS
OF SOCIAL WORK AND
SOCIAL RESEARCH:

JEAN D. HARING, M.A., M.S.W.

JEANNE C. POLLOCK, M.S.W.

The program prepares students for college teaching and research in Educational Psychology and Child Development, for child guidance, for school psychology, school counseling and for teaching in the schools. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed. The chief focus is upon learning in the family and the school.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in Psychology and are qualified in a subject matter field. Foundation work for teaching in the elementary school is available. A sequence leading to specialization in elementary school counseling with supervised field work in selected schools is open to qualified students. Under the reciprocal plan with the University of Pennsylvania (see page 27) the equivalent of one seminar may be taken at that institution.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate preparation in the liberal arts which must include work in General Psychology. Students whose undergraduate training in Psychology is not adequate will be required to take such undergraduate courses as seem necessary. Applicants for admission are asked to submit scores of the Graduate Record Examination in Verbal and Mathematical aptitudes.

Major and Allied Subjects. Candidates for advanced degrees are expected to become competent in several different areas: child development, learning, measurement and guidance, secondary education, the school as a social institution, and history and philosophy of education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. The allied subject may be chosen from the fields of Psychology, Sociology, Anthropology or Philosophy.

Requirements in Languages and Statistics. French and German, for the Ph.D.; candidates for the M.A. must either (1) pass examinations in French and German or (2) pass an examination in French or German and demonstrate a working knowledge of statistics. Candidates for the Ph.D. will be required to demonstrate a working knowledge of statistics. The statistics requirement for both degrees may be satisfied by passing an approved course or an examination.

Program and Examination for the M.A. Candidates will normally offer three units of graduate work in Education, although one of three may be taken in an allied field. The Final Examination consists of two three-hour written examinations, one in each field offered, and a one-hour oral examination.

Examination for the Ph.D. The Preliminary Examination consists of four written examinations, one of which may be in an allied field, and an oral examination on the dissertation.

THE PHEBE ANNA THORNE SCHOOL AND THE CHILD STUDY INSTITUTE

The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three- and four-year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early school development.

The Department also operates the Child Study Institute, a psychological and guidance center where problems of learning and behavior are studied and remedial measures planned and carried out for parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate in the work at various levels of responsibility. Referrals from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and social agencies give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, play therapy and student observation.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss McBride:

The American School.

Mrs. Cox:

**Advanced Clinical Evaluation (including the Projective Techniques).*

Elementary School Counseling.

Problems of Child Development.

Adolescent Development.

Mr. Brutton:

**The Psychology of Exceptional Children.*

**Diagnosis and Treatment of Learning Problems.*

Miss Maxfield:

**Developmental Psychology.*

**Early Childhood Education.*

**Growth and Learning in the Kindergarten.*

Mrs. Maw:

Educational Psychology.

Curriculum of the Elementary School.

History and Philosophy of Education.

**Research and Measurement in Education and Child Development.*

* Laboratory practice required.

Mrs. Pollock and Miss Haring:

Social Case Work—(given in cooperation with the Department of Social Work and Social Research.)

Supervised counseling experience in the public school: 12 hours per week for two semesters.

SELECTED UNDERGRADUATE COURSES

[201a. *Educational Psychology*: Mrs. Cox.]

202a. *Child Psychology*: Mrs. Cox.

Prerequisite: General Psychology. Experience in the Phebe Anna Thorne School required, two hours per week.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

These courses satisfy the practice-teaching requirement of most states. Plans for registration should be made in the spring or summer before the student expects to take the course so that appropriate arrangements for practice-teaching can be made. Laboratory: 12 hours per week supervised teaching.

CERTIFICATE TO TEACH

Requirements for the state certificate to teach in the public secondary school can be met by the appropriate selection of courses in this Department. Though each state has its own requirements, most follow the same pattern, namely the Bachelor of Arts degree with emphasis upon a content area offered in the secondary school plus eighteen semester hours of professional preparation for teaching. At Bryn Mawr the suggested sequence includes General Psychology followed by Principles of Teaching and Educational Psychology. The student then takes either History and Philosophy of Education or Child Psychology, depending upon her interest and prior training. Required of all is Principles of Teaching in the Secondary School which includes as its laboratory, twelve hours a week of supervised practice teaching in the public school. Much of the basic work leading to the elementary school certificate is offered by the Department. Additional required courses may be taken at the University of Pennsylvania.

Fulfillment of certification requirements does not fully satisfy requirements for the Master of Arts degree, but because there is some overlap, an able full-time student can meet the requirements for both the certificate and the degree in three semesters.

English

PROFESSORS:	K. LAURENCE STAPLETON, A.B., <i>Chairman</i> ARTHUR COLBY SPRAGUE, PH.D. MARY KATHARINE WOODWORTH, PH.D.
ASSOCIATE PROFESSORS:	WARNER B. BERTHOFF, PH.D. ¹ ISABEL GAMBLE MACCAFFREY, PH.D.
LECTURERS:	H. HENNIG COHEN, PH.D. ROBERT CORRIGAN, M.A.
ASSISTANT PROFESSORS:	JAMES H. BRODERICK, PH.D. ROBERT B. BURLIN, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Since seminars run through the year, students must begin work in the first semester.

Prerequisites. An undergraduate major in English (or its equivalent) consisting of a critical and historical study of several periods of English Literature. Students working in the mediaeval period must have a reading knowledge of Latin. For other students this is strongly recommended. Students must have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy.

Allied Subjects. Any language and literature, classical or modern European; English Philology; American Literature; Philosophy; History, mediaeval or modern; and the History of Art.

Language Requirements. French and German. In special cases, another modern language may be substituted for German, by permission of the Department. Ph.D. candidates entering in 1963 and thereafter will be expected to present evidence of a knowledge of Latin equivalent to two years of high school training. This requirement must be satisfied before the candidate takes the Preliminary Examination for the Ph.D.

Program and Examination for the M.A. Three units of work in English or two in English and one in an allied field. The Final Examination is written, four hours in length.

1. On leave of absence and sabbatical leave for the year 1962-63.

Examinations for the Ph.D. The Preliminary Examination is in five parts: four written (from three to four hours each) and an oral (one to two hours). The candidate whose major interest is in the mediaeval period must take at least one examination in the modern period; the candidate whose major interest is in the modern period must take at least one examination in the mediaeval period. One examination may be in an allied field. The Final Examination (oral, from one to two hours) is in the field in which the candidate has written her dissertation.

SEMINARS AND GRADUATE COURSES

English Literature

Mr. Burlin:

1962-63: Old English Literature.

1963-64: Chaucer and his Contemporaries.

Mr. Sprague (One of the following seminars):

Restoration Drama.

Shakespeare.

Miss Stapleton:

1962-63: Milton.

1963-64: Studies in Poetry.

Miss Woodworth:

1962-63: Contemporary Literature.

1963-64: Literature of the Eighteenth Century.

Mr. Broderick:

1962-63: The Romantic Period.

1963-64: Victorian Writers.

Mr. Cohen:

1962-63: Studies in American Literature.

SELECTED UNDERGRADUATE COURSES

201. *Chaucer*: Mr. Burlin.

202. *Shakespeare*: Mr. Sprague.

[203. *The Romantic Period*: Mr. Broderick.]

204. *The Victorian Period*: Mr. Broderick.

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

208. *American Literature*: Mr. Corrigan.
 [212b. *Blake*: Miss Woodworth.]
 302a. *The Drama from the Beginnings to 1642*: Mr. Sprague.
 [303b. *English Poetry from Spenser to Donne*: Mr. Sprague.]
 304. *The Seventeenth Century*: Mrs. MacCaffrey.
 305. *The Eighteenth Century*: Miss Woodworth.

French

VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSOCIATE PROFESSORS:	MARIO MAURIN, PH.D., <i>Chairman</i> MICHEL GUGGENHEIM, PH.D.
ASSISTANT PROFESSOR:	BERNARD TOSCANI, PH.D.
LECTURER:	M. PAULINE JONES, M.A.
INSTRUCTOR:	SUSAN WALSH, B.A.

Special Requirements for Graduate Work
 (for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school.

Major and Allied Subjects. Students may specialize either in Old French Philology and Literature or in Modern French Literature. If the major field is Old French, advanced work in Modern French Literature may be offered as an allied subject and vice versa. The other allied subjects accepted by the Department are: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

Language Requirements. German, and either Italian or Spanish. Candidates for the M.A. may substitute for the Italian or Spanish examination evidence of extensive training in Mediaeval Latin or Advanced Classical Latin.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit, graduate

or undergraduate, in either French or an allied field. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

Program and Examinations for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination conducted in English. Candidates whose major field is Old French are expected to present evidence of a general knowledge of Modern French Literature and to take one examination in that field and vice versa. Before being admitted to the Preliminary Examination candidates must satisfy the Department that they have an adequate command of spoken French.

SEMINARS AND GRADUATE COURSES

The introductory course in Old French is offered in each year. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of Modern French Literature are given in each year, so arranged that the same one will not be given in successive years. The seminars, which are conducted in French, are selected from the following:

Old French

Mr. Roach:

Introduction à la littérature du moyen âge, présentation systématique des éléments de grammaire historique.

Modern French Literature

Mr. Guggenheim:

*Le moi dans la littérature française de Montaigne à Gide.
Rousseau et le Prérromantisme.
Balzac et Flaubert.
Stendhal.*

Miss Jones:

*Baudelaire.
Scève et Mallarmé.
Origines de la poésie moderne.*

Mr. Maurin:

*Aspects de la solitude dans la littérature française.
Rabelais et Montaigne.
Arts Poétiques de Mallarmé au Surréalisme.
Gide.*

Journal Club. During the year members of the Department and graduate students meet at intervals to discuss research in progress, or recent books and articles of interest. Some of these meetings are held jointly with the Departments of Italian and Spanish.

SELECTED UNDERGRADUATE COURSES

- [301. *French Poetry from Villon to Valéry*: Mr. Maurin, Miss Jones.]
- 302. *French Drama*: Mr. Guggenheim, Mr. Maurin.
- 303. *The French Novel from 1700 to 1950*: Mr. Guggenheim.
- [304. *French Essayists and Moralists*: Mr. Maurin.]

Geology

PROFESSORS:

EDWARD H. WATSON, PH.D.,
Chairman

LINCOLN DRYDEN, PH.D.

DOROTHY WYCKOFF, PH.D.¹

ASSISTANT PROFESSOR:

JEROME REGNIER, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. A course in General Geology and at least one course from each of the larger fields: Physical Geology and Paleontologic-stratigraphic Geology. Training in the allied sciences of Physics, Chemistry, Biology and Mathematics is necessary.

Major and Allied Subjects. Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

Language Requirements. For the M.A. and the Ph.D., German and one other modern language.

1. On sabbatical leave for the year 1962-63.

Program and Examination for the M.A. Three units of work, of which one will usually be a special piece of field or laboratory research. The Final Examination consists of a four-hour written test and a one-hour oral.

Program and Examinations for the Ph.D. Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve a combination of field mapping or collecting, together with laboratory study. The number of units of class work to be taken will depend on the student's preparation. The Preliminary Examination will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

SEMINARS AND GRADUATE COURSES

At least three seminars are offered each year, to be selected from the following:

Mr. Watson, Miss Wyckoff, Mr. Regnier: *Petrology*

Selected subjects in the structure, physical chemistry and origin of the igneous rocks.

Miss Wyckoff: *Metamorphism*

The physical and chemical processes of metamorphism, accompanied by regional studies.

Mr. Watson, Miss Wyckoff, Mr. Regnier: *Petrographic Methods*

This is largely a course in laboratory instruction and in general will accompany the seminars in Petrology and Metamorphism. Special techniques such as the universal stage, X-ray analysis, mechanical separations from rocks and petrofabric analysis will be taught.

Mr. Dryden: *Stratigraphy*

A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr. Watson, Miss Wyckoff: *Structural Geology*

The analysis of regional structures, generally undertaken with reference to a field problem.

Mr. Watson: *Mineralogy*

The optical, chemical and X-ray study of selected mineral groups.

Mr. Dryden, Mr. Regnier: *Sedimentation*

A study of the origin of sedimentary rocks; their source, transportation and deposition.

Mr. Watson, Mr. Regnier: *Geochemistry*

A study of the distribution of elements, crystal structure and chemistry, mineral equilibria, et cetera.

SELECTED UNDERGRADUATE COURSES

- 301. *Structural and Field Geology*: Mr. Watson, Mr. Regnier.
- [302. *Stratigraphy*: Mr. Dryden.]
- 303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Mr. Regnier, Mr. Watson.
- [305. *Geography*: Miss Wyckoff.]
- [306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.]

German

ASSOCIATE PROFESSOR: CHRISTOPH E. SCHWEITZER, PH.D.,
Chairman

ASSISTANT PROFESSORS: MARTHA M. DIEZ, M.A.
HUGO SCHMIDT, PH.D.
WILLIAM Z. SHETTER, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in German or an equivalent preparation.

Major and Allied Subjects. Students may specialize in either German literature or Germanic philology. One of these two fields or an area in the humanities, especially the literatures, may serve as the allied subject.

Language Requirements. Normally French and Latin for the M.A. and Ph.D. For the M.A. another language may substitute for Latin.

Program and Examination for the M.A. The program consists of one or two courses in literature and one in philology. The third

unit may be in an allied field. In addition to acquainting the student with the field in general, the M.A. program introduces various methods of literary criticism. Every candidate must present a paper which represents satisfactory evidence of independent research. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examination for the Ph.D. Every candidate must fulfill certain requirements in German literature and Germanic philology. Those majoring in Germanic philology will select the following courses: Comparative Indo-European, Gothic, Old High German, and one of the following: Old Saxon, Old English, or Old Norse. Work in German dialects, structural linguistics, and a non-Indo-European language is recommended. Those majoring in German literature will normally take one unit each in the mediaeval, classical, and modern periods, as well as at least one genre course. Under the guidance of members of the Department each student will engage in independent reading and research to supplement the course work. The Department encourages interdepartmental research projects and draws attention to the Ottendorfer Research Fellowship for study at a German university. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

SEMINARS AND GRADUATE COURSES

The courses offered are selected from the following:

Mr. Schweitzer:

German Baroque Literature.

Goethe and Schiller.

The "Bildungsroman."

Mr. Schmidt:

Lyric Poetry Since Goethe.

The Modern German Novel.

Methods of Literary Criticism.

Mr. Shetter:

Linguistics.

Germanic Philology.

Middle High German Literature.

SELECTED UNDERGRADUATE COURSES

- [301. *Introduction to Germanic Philology.*]
- 302. *German Language and Literature of the Middle Ages:*
Mr. Shetter.
- [303. *The Classics of the Nineteenth Century:* Mr. Schmidt.]
- [304. *Modern German Literature:* Mr. Schmidt.]
- 305a. *The German "Novelle":* Mr. Schmidt.
- [306. *The German Drama:* Mr. Schweitzer.]
- 307b. *German Poetry:* Mr. Schmidt.

Greek

PROFESSORS:	RICHMOND LATTIMORE, PH.D., LITT.D. MABEL L. LANG, PH.D., <i>Chairman</i>
INSTRUCTOR:	ANTHONY JOHN MARSHALL, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek will have some knowledge of Latin.

Allied Subjects. Any literature, ancient or modern, Ancient History, Ancient Philosophy, Classical Archaeology, Comparative Philology.

Language Requirements. French and German.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry, Lyric Poetry, Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history.

SEMINARS AND GRADUATE COURSES

Mr. Lattimore, Miss Lang:

Herodotus.

Miss Lang, Mr. Lattimore:

Homer.

SELECTED UNDERGRADUATE COURSES

301. *Comedy and Lyric Poetry*: Mr. Lattimore.

[302. *Early Greek Literature: History and Criticism*: Mr. Lattimore.]

History

PROFESSOR:

CAROLINE ROBBINS, PH.D., *Chairman*

ASSOCIATE PROFESSORS:

ARTHUR P. DUDDEN, PH.D.

DAVID J. HERLIHY, PH.D.

ASSISTANT PROFESSOR:

MARY MAPLES DUNN, PH.D.

LECTURERS:

ALAN SILVERA, M.A.

BARBARA M. LANE, PH.D.

PROFESSOR OF LATIN:

THOMAS ROBERT SHANNON
BROUGHTON, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. A good undergraduate preparation in general History, the humanities and the social sciences. Students who wish to work in seminars in the ancient or mediaeval fields must be

able to read Latin. Those planning work in Modern European History must have a reading knowledge of one modern language, preferably French or German.

Major and Allied Subjects. Students may work in Ancient, Mediaeval or Modern European History as well as in English and American. Most subjects in the field of History, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable.

Language Requirements. Two languages are required for the M.A. and for the Ph.D. degree. Preference is given to French and German and substitutions for either of these languages may be made only with the consent of the Department.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field. The Final Examination is written and usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which some aspects of historiography are studied. The Preliminary Examination tests the student's competence in four general fields of History, or in three fields of History and one field in an allied subject. For example, work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession. Topics listed below indicate the area in which seminars will be offered according to the needs of students.

Mr. Broughton: *Ancient History.*

Mediaeval and Renaissance History

Mr. Herlihy: *Mediaeval Institutions.*

[Instructor to be announced: *Intellectual and Political Problems in the Age of the Renaissance and Reformation.*]

British History

Miss Robbins: Topics in the History of the Period 1649-1875. Each year a selected period is studied: e.g., Restoration, Revolution, Septennial Parliament, the age of Gladstone and Disraeli.

American History

Mrs. Dunn: Topics in Colonial History.

Mr. Dudden: Topics in the History of the United States.

Modern European History

Miss Robbins: Eighteenth Century Life and Thought.

[Instructor to be announced: Topics in the Political History of the Twentieth Century.]

Journal Club. Students and members of the faculty in the Department together with those interested in the Departments of Economics and Political Science meet four or five times a year to discuss research in progress, or recent books and projects, or to entertain visiting scholars.

SELECTED UNDERGRADUATE COURSES

- 301. *Europe in the Twentieth Century*: Mrs. Lane.
- 303a. *The Expansion of the American Nation*: Mr. Dudden.
- 303b. *The American People in the Recent Past*: Mr. Dudden.
- 304a. *England in the Nineteenth Century*: Miss Robbins.
- [305. *Renaissance and Reformation*: Mrs. Lane.]
- [306a. *The Enlightenment*: Miss Robbins.]
- 306b. *Great Historians*: Miss Robbins.

History of Art

PROFESSOR:

CHARLES MITCHELL, M.A., B.LITT.,
Chairman

ASSOCIATE PROFESSORS:

JAMES W. FOWLE, PH.D.
WILLIAM C. LOERKE, M.F.A., PH.D.

INSTRUCTOR:

GERALD M. ACKERMAN, M.F.A.

VISITING LECTURER

IN SPANISH AND

HISTORY OF ART:

ENRIQUE LAFUENTE FERRARI, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Program for the M.A. This consists of (a) three units of graduate work, one of which may be in an allied field; (b) an extended paper on a topic chosen in consultation with the Department; (c) a Final Examination (written or written and oral) to test the candidate's ability to place the topic chosen under (b) in the general context of the history of art.

Program for the Ph.D. Prime emphasis is placed on a program of research leading to a dissertation. A Preliminary Examination in four art-historical subjects (or in three art-historical subjects and one allied subject), consisting of four written papers and an oral examination, must be satisfactorily completed.

Allied Subjects. To be determined in consultation with the Department, according to the needs of the individual research program.

Prerequisites. The normal prerequisite for admission is a training in art history, but students with special abilities, or sound training in cognate disciplines are also admitted.

Languages. Students will be expected to read or be learning the languages necessary for their special fields of study and not to delay their research by lack of linguistic competence. Advanced study of western art-history normally involves a working knowledge of Latin, French, German and Italian.

SEMINARS AND GRADUATE COURSES

Mr. Mitchell:

Sir Joshua Reynolds.

Mr. Loerke:

Byzantium and the West in the Eleventh Century.

Mr. Fowle:

French Painting of the Early Nineteenth Century.

Mr. Ackerman:

Mannerist and Baroque Art Theory.

SELECTED UNDERGRADUATE COURSES

212b. *Renaissance Architecture:* Mr. Ackerman.

300a. *Texts for Art Historians:* Mr. Mitchell.

311b. *The Dome:* Mr. Loerke.

324a. *Twentieth Century Painting:* Mr. Fowle.

333b. *Velázquez:* Mr. Lafuente.

History of Religion

PROFESSOR OF LATIN: AGNES KIRSOPP MICHELS, PH.D.

ASSOCIATE PROFESSOR

OF PHILOSOPHY: JEAN A. POTTER, PH.D.

Appointment to be announced.

No graduate work is offered in History of Religion.

The courses listed are open to graduate students and may be taken for graduate credit with the permission of the major Department.

UNDERGRADUATE COURSES

103. *Literary History of the Bible*: Mrs. Michels.

The history of the Bible, with special emphasis on analysis of text and on literary forms.

201a. *Comparative Religion*: Instructor to be announced.

201b. *History of Christian Thought*: Instructor to be announced.

203a. *Philosophy of Religion*: Miss Potter.

This course is also listed as Philosophy 203.

203b. *Mediaeval Philosophy*: Instructor to be announced.

Italian

PROFESSOR:

ANGELINE H. LOGRASSO, PH.D.,
Chairman

ASSISTANT PROFESSOR:

BERNARD TOSCANI, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Italian or its equivalent in ability to read, write and speak Italian together with a knowledge of Italian classical literature which, in the

opinion of the Department, provides an adequate basis for graduate work.

Allied Subjects. Any language or literature, European History, History of Art, Philosophy, Music, Political Science; other fields of importance for the candidate's work will be considered.

Language Requirements. French and German. In exceptional cases, determined by the special interests of the student, Latin or another language may be substituted for one of the two required languages.

Program and Examination for the M.A. Three units of work in Italian or in Italian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers and an oral examination. One paper must be in the field of Provençal, preferably Provençal and Old French. One paper may be in an allied field determined by the special interests of the student. Before taking the Preliminary Examination the candidate must demonstrate proficiency in spoken Italian.

SEMINARS AND GRADUATE COURSES

The seminar given is selected from the following. Normally the same seminar does not meet two years in succession and is usually not repeated within a three-year period.

Miss Lograsso:

Old Italian.

Provençal.

Dante.

The Renaissance.

Literary Criticism.

Manzoni.

Romanticism.

The Thought of Luigi Sturzo.

SELECTED UNDERGRADUATE COURSES

201. *Classics in Italian Literature:* Miss Lograsso.

Reading and explanation of texts, with a study of literary history.

[202. *Dante*: Miss Lograsso.]

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works. This course is open to anyone with a reading knowledge of Italian.

[302c. *The Italian Language*: Miss Lograsso.]

Advanced work in composition.

303. *Italian Literature of the Rinascimento*: Mr. Toscani.

[304. *Italian Literature of the Romantic Period*: Miss Lograsso.]

Latin

PROFESSORS: THOMAS ROBERT SHANNON BROUGHTON,
Ph.D., *Chairman*

BERTHE MARIE MARTI, Ph.D.

AGNES KIRSOPP MICHELS, Ph.D.

INSTRUCTOR: ANTHONY JOHN MARSHALL, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Latin, based on study in school and at least three years of college Latin, part of it in advanced courses; representative reading from Latin Literature of the classical period which, in the opinion of the Department, provides an adequate basis for graduate work. It is desirable that all graduate students in Latin should have some knowledge of Greek.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; Ancient History and, for students whose major interest is Mediaeval Latin, Mediaeval History; Classical Archaeology; Classical Philology. For most students the Department recommends Greek as the allied subject.

Language Requirements. French and German. In addition a reading knowledge of Greek is required for the Ph.D.

Program and Examination for the M.A. Candidates will normally offer two units of graduate work in Latin and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must pass an examination in Latin sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination all candidates must pass a rigorous examination in Latin sight translation. Candidates who offer Greek as an allied field must pass a rigorous examination in Greek sight translation. Candidates who do not offer Greek as an allied field must pass an examination to test their ability to read Greek at sight before they are admitted to the Final Examination. The Preliminary Examination consists of four written papers and an oral examination. Candidates whose major interest is Classical Latin are expected to offer in their Preliminary Examination Latin Literature of the classical period (Livius Andronicus to Tacitus) and, in most cases, one subsidiary field within the major—for instance a period of Roman History, Roman Religion, the History of Classical Scholarship, Epigraphy or Palaeography. In addition candidates are expected to offer an allied field (usually Greek). Candidates whose major interest is Mediaeval Latin are expected to show in their Preliminary Examination a broad knowledge of classical Latin Literature, but the emphasis in the examinations will be determined by the special interests of the student.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Mr. Broughton:

The Augustan Empire.

Cicero's Correspondence.

History and Literature of the Second Century B.C.

Latin Inscriptions.

Miss Marti:

History of Classical Scholarship.

Latin Palaeography and Textual Criticism.

Literature of the Silver Age.

Literature of the Twelfth Century.

Mrs. Michels:

Augustan Poetry.

Lucretius and Catullus.

Roman Satire.

The Works of Vergil.

Roman Rhetoric: Theory and Practice.

SELECTED UNDERGRADUATE COURSES

301a. *Vergil's Aeneid*: Mrs. Michels.

301b. *Tacitus and Livy*: Mr. Broughton.

[302a. *Cicero and Caesar*: Mr. Broughton.]

[302b. *Lucretius*: Mrs. Michels.]

Mathematics

PROFESSORS:

JOHN C. OXTOBY, M.A., *Chairman*

MARGUERITE LEHR, PH.D.

ASSOCIATE PROFESSOR:

FREDERIC CUNNINGHAM, JR., PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. A good undergraduate preparation in Mathematics, or in Mathematics and Physics.

Major and Allied Subjects. Students may specialize in any of the broad divisions of Mathematics: Algebra, Analysis, Geometry, or Mathematical Physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. and Ph.D. must pass examinations in two of the three: French, German, Russian.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as a whole. It may or may not include an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses of directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only. They are usually selected from the following:

Mr. Cunningham:

Functional Analysis.

General Topology.

Linear Spaces.

Theory of Functions of a Complex Variable.

Miss Lehr:

Abstract Algebra.

Differential Geometry.

Probability Theory.

Projective Spaces and Lattice Theory.

Mr. Oxtoby:

Ergodic Theory.

Mathematical Physics.

Measure Theory.

Point Set Topology.

Theory of Functions of a Real Variable.

Journal Club. A joint Mathematical Colloquium with Haverford and Swarthmore Colleges and the University of Pennsylvania meets approximately every two weeks for the presentation of current research by local or visiting mathematicians.

SELECTED UNDERGRADUATE COURSES

301. *Advanced Calculus*: Mr. Cunningham.
 303a. *Introduction to Abstract Algebra*: Miss Lehr.
 304a. *Theory of Probability*: Miss Lehr.
 [305b. *Topics in Differential Geometry*: Miss Lehr.]
 [310. *Theory of Functions of a Complex Variable*: Mr. Oxtoby.]
 [311b. *Differential Equations*: Mr. Oxtoby.]

Mediaeval Studies

PROFESSOR OF	
HISTORY OF ART:	CHARLES MITCHELL, M.A., B.LITT.
PROFESSOR OF	
GEOLOGY:	DOROTHY WYCKOFF, PH.D. ¹
PROFESSOR OF ITALIAN:	ANGELINE HELEN LOGRASSO, PH.D.
PROFESSOR OF LATIN:	BERTHE MARIE MARTI, PH.D.
PROFESSOR OF	
PHILOSOPHY:	JOSÉ MARIA FERRATER MORA, <i>Lic.F.L.</i>
VISITING PROFESSOR	
OF FRENCH:	WILLIAM J. ROACH, PH.D.
ASSOCIATE PROFESSOR	
OF HISTORY OF ART:	WILLIAM C. LOERKE, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR	
OF HISTORY:	DAVID J. HERLIHY, PH.D.
ASSISTANT PROFESSOR	
OF ENGLISH:	ROBERT B. BURLIN, PH.D.
ASSISTANT PROFESSOR	
OF MUSIC:	SYLVIA W. KENNEY, PH.D.

Graduate work in the mediaeval field may be done in either of two ways: (a) under a particular department, e.g., History, Latin, History of Art or one of the language and literature departments, in which case students come under the regulations of the department concerned; or (b) under the Mediaeval Studies Committee,

1. On sabbatical leave for the year 1962-63.

as listed above, in which case they work for a degree specifically in Mediaeval Studies according to the following plan:

Prerequisites. An undergraduate major in any of the fields listed in the paragraphs under major and allied subjects.

Major and Allied Subjects. Any literature ancient, mediaeval or modern, History, Philosophy, Classical Archaeology, History of Art, History of Music.

Language Requirements. For the M.A. and the Ph.D.: Latin, French and German. Other languages may be substituted by permission of the Committee according to the candidate's special program.

Program and Examinations for the M.A. Candidates will normally work in two departments and will offer at least two units of graduate work in any of the mediaeval fields and a third unit in any of the fields listed as allied. An extended paper, usually growing out of the work of one of the seminars, will be required in addition to the examination. The examination may be either written (four hours) or written and oral (three hours—one hour).

Program and Examinations for the Ph.D. The course of study will normally be under the guidance of one professor. Prime emphasis will be placed on a program of research leading to a dissertation. A satisfactory Preliminary Examination in two mediaeval fields and one allied field, consisting of several examinations, written and oral, will be required.

SEMINARS AND GRADUATE COURSES: (See under the various departments).

Music

PROFESSOR AND DIRECTOR OF
THE CHORUS:

ROBERT L. GOODALE, B.Mus.,
A.A.G.O., *Chairman*

PROFESSOR AND DIRECTOR OF
ENSEMBLE GROUPS:

AGI JAMBOR, M.A.

VISITING PROFESSOR:

HORACE ALWYNE, F.R.M.C.M.

ASSISTANT PROFESSOR:

SYLVIA W. KENNEY, Ph.D.

DIRECTOR OF ORCHESTRA:

WILLIAM H. REESE, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of pianoforte or organ playing to be able to play music of the technical difficulty of a Bach figured chorale.

Allied Subjects. Any modern language or literature, History, History of Art, History of Religion, Philosophy.

Language Requirements. Two modern languages are required for the M.A. degree, preference being given to German and French. For candidates for the Ph.D. degree two languages are required, one of which must be German.

Program and Examination for the M.A. The program consists of three units of work in Music. The Final Examination is written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The oral examination covers the subject matter of the dissertation.

SEMINARS AND GRADUATE COURSES

Miss Kenney:

Mediaeval and Early Renaissance Music: a Study of Style and Paleography.

Music of the Late Renaissance and Baroque.

Mr. Goodale:

Music of the Twentieth Century.

Theory and Analysis.

Mme Jambor:

The Interpretation of Music.

Mr. Alwyne:

The Music of England.

The Nineteenth Century.

SELECTED UNDERGRADUATE COURSES

- 201. *The Romantic Period*: Mr. Alwyne.
- 202. *Advanced Theory and Analysis*: Mr. Goodale.
- 203a. *Bach*: Mme Jambor.
- 204b. *The Classical Period*: Mme Jambor.
- 301a. *Opera and Music Drama*: Miss Kenney.
- 301b. *Contemporary Music*: Mr. Goodale.
- [302a. *Mediaeval and Early Renaissance Music*: Miss Kenney.]
- [302b. *Late Renaissance and Baroque Music*: Miss Kenney.]
- [303a. *Orchestration*: Mr. Goodale.]
- [303b. *Russian Music*: Mr. Alwyne.]
- 304c. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme Jambor.
- 305. *Free Composition*: Mr. Goodale.

Membership in the Ensemble Groups, the Orchestra and the College Chorus is open to graduate students. Participation by students in the Department in one or more of these organizations is strongly urged.

Philosophy

PROFESSORS:

MILTON CHARLES NAHM, B.LITT.,
PH.D., *Chairman*

JOSÉ MARIA FERRATER MORA, *Lic.F.L.*

HUGUES LEBLANC, PH.D.

ISABEL SCRIBNER STEARNS, PH.D.

ASSOCIATE PROFESSORS:

GEORGE L. KLINE, PH.D.¹

JEAN A. POTTER, PH.D.

Special Requirements for Graduate Work

(for the general requirements, see pp. 28-34)

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy or whose undergraduate major work is not adequate may be required to take such undergraduate courses as the Department considers necessary.

1. On sabbatical leave, semester I, 1962-63.

Major and Allied Subjects. Students may major in either historical or systematic branches of Philosophy. Allied subjects: another field of Philosophy, Biology, Chemistry, Economics, English, French, Greek, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, Sociology and Anthropology.

Language Requirements. French and German. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.

Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination.

SEMINARS AND GRADUATE COURSES

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr. Ferrater Mora:

History of Philosophic Concepts.

The origin and development of philosophic concepts with particular attention to meanings and changes of meaning throughout history.

Types of Philosophy.

A study of the various ways of grouping philosophic systems, with an analysis of philosophic methods.

Heidegger.

A detailed examination of *Sein und Zeit* with particular attention to its place and significance in Heidegger's thought.

Mr. Nahm:

Aesthetics.

A systematic and historical analysis of problems in the philosophy of art.

Ethics.

The Ethics of Kant and Hegel; or The History of English Ethics; or Henry Sidgwick and Contemporary British Moralists.

Kant.

Critique of Pure Reason.

Miss Stearns:

Epistemology.

An historical and systematic study of the function of reason and other agencies in knowledge.

Metaphysics.

A study of such problems as time, the one and the many, the individual, appearance and reality.

Plotinus.

A detailed study of the *Enneads*.

Mr. Leblanc:

Deductive Logic.

A study of deductive logic and of some outstanding results in the syntax and semantics of deductive logic.

Inductive Logic.

A study of statistical and inductive probabilities, of current methods for testing hypotheses and making estimates, and, more generally, of induction.

Logical Empiricism versus Analytic Philosophy.

A study of two major trends in American and British philosophy today.

Journal Club. Students have the privilege of becoming auxiliary members of the Fullerton Club, which meets each month at the Deanery, and at which papers are read by members of the faculties of Bryn Mawr, Swarthmore, Haverford and other nearby colleges, and the University of Pennsylvania.

SELECTED UNDERGRADUATE COURSES

- 201a. *German Idealism*: Mr. Ferrater Mora.
- 201b. *Recent Metaphysics*: Miss Stearns.
- 202a. *Logic*: Mr. Leblanc.
- 203b. *Mediaeval Philosophy*: Miss Potter.
- [205a. *Russian Ethical and Social Theory*: Mr. Kline.]
- 301a. *Aesthetics*: Mr. Nahm.
- 301b. *Theory of Knowledge*: Mr. Leblanc.
- 302a. *Plato*: Miss Stearns.
- [302b. *Philosophy of History*: Mr. Ferrater Mora.]
- 303a. *Continental Rationalism*: Miss Potter.
- [303b. *Contemporary Philosophy*: Mr. Ferrater Mora.]
- 304b. *Aristotle*: Mr. Ferrater Mora.
- 305b. *Hegel*: Mr. Kline.

Physics

PROFESSOR:

WALTER C. MICHELS, PH.D., *Chairman*

ASSOCIATE PROFESSORS:

ROSALIE C. HOYT, PH.D.

JOHN R. PRUETT, PH.D.

ASSISTANT PROFESSOR:

W. PAUL GANLEY, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g. Mathematics, Chemistry, Engineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars.

Allied Subjects. Candidates for the degree of Doctor of Philosophy are in general expected to offer Mathematics as an allied subject. They may substitute Chemistry, Biology, or Geology if their mathematical training is accepted as adequate for their work in Physics.

Language Requirement. The two languages required for the M.A. and Ph.D. degrees will ordinarily be chosen by the student to include one each from two of the following categories: (a) German; (b) Russian; (c) French, Italian or Spanish.

Program and Examination for the M.A. An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college Physics courses, but the student will be expected to handle this material on a reasonably mature level.

Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of Experimental Physics and at least one graduate seminar in Theoretical Physics. The paper will usually consist of a report on work done in connection with the unit of Experimental Physics.

The M.A. examination is a one-hour oral examination.

Program and Examination for the Ph.D. Each candidate must have completed Physics 304 or its equivalent and have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examination will consist of three four-hour written examinations, one problem set, and an oral examination lasting approximately one hour. Each of the three four-hour examinations will cover one of the following fields of Physics, to be chosen by the Department: (1) Classical Mechanics, including relativity theory, vibrations, and wave motion; (2) Electricity and Magnetism, including field problems and electromagnetic waves, the latter with particular reference to optical phenomena; (3) Quantum Mechanics, with applications to atomic and nuclear structure; (4) Thermodynamics and Statistical Mechanics, including both classical and quantum statistics. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general Physics.

Each full-time graduate student is expected to carry on some experimental work each year. Unless the candidate has demonstrated adequate acquaintance with Experimental Physics in other ways, the research leading to the dissertation must be, at least in part, experimental.

SEMINARS

Two or more graduate seminars in Theoretical Physics are offered each year. In addition, a seminar in Experimental Physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Experimental Physics

Mr. Michels, Miss Hoyt, Mr. Pruett, Mr. Ganley.

Theoretical Physics

Mr. Ganley, Mr. Michels.

1962-63: *Electromagnetic Theory*. Maxwell's Equations, applications to waves subject to various boundary con-

ditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr. Pruett:

1962-63: *Quantum Mechanics*. Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications to atomic structure. The Dirac approach with applications to relativistic electron theory and the quantum theory of radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.

Miss Hoyt:

1962-63: *Chemical Physics*. Chemical and phase equilibria, interatomic and intermolecular forces, chemical bonding, molecular structure. Prerequisite: Quantum Mechanics.

Mr. Pruett:

1963-64: *Nuclear Physics*. An introductory study of classical nuclear physics followed by applications of quantum mechanics to nuclear problems and associated high energy phenomena. Some quantum electrodynamics and meson theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

Mr. Michels:

1964-65: *Physics of the Solid State*. Classification and characteristics of solids, theory of mechanical, electrical, thermal, and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Colloquium. All members of the Department and all graduate students meet weekly for the discussion of current problems.

SELECTED UNDERGRADUATE COURSES

201a. *Electricity and Magnetism*: Mr. Pruett.

202b. *Optics*: Mr. Pruett.

301a. *Classical Mechanics*: Mr. Ganley.

303b. *Thermal Properties of Matter*: Mr. Michels.

304. *Introduction to Theoretical Physics*: Miss Hoyt.

305c. *Physical Measurements*: Mr. Ganley.

[351.**Application of Physics to Biology and Chemistry*: Miss Hoyt.]

Political Science

The Caroline McCormick Slade Department of Political Science

PROFESSOR:	ROGER HEWES WELLS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	PETER BACHRACH, PH.D. MELVILLE T. KENNEDY, JR., PH.D. GERTRUDE C. K. LEIGHTON, A.B., LL.B. ¹
LECTURER:	CHARLES J. COOPER, LL.B.
<hr/>	
DEAN OF THE COLLEGE:	DOROTHY NEPPER MARSHALL, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. Good undergraduate training in Political Science and related subjects.

Major and Allied Fields. The major fields in Political Science are Political Theory, Comparative Government, American Government and Constitutional Law, International Law, Organization and Politics, and Public Administration. Allied fields may be chosen in the other Social Sciences, in History and Philosophy, and, with the special permission of the Department, in certain subjects in Literature. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be allied.

Language Requirements. Two modern languages.

Program and Examination for the M.A. The program consists of three units of work in Political Science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

Program and Examination for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is done. The other three fields are tested by preliminary written and oral examinations. The fourth field and the dissertation are covered in the Final Oral Examination.

1. On partial leave of absence for the year 1962-63.

SEMINARS

Mr. Wells:

Comparative Government: Problems of Federalism. 1962-63.
Problems of Public Administration.
Topics in Western Political Theory.

Mr. Bachrach:

American Constitutional Law. 1962-63.
Topics in American Political Theory.
The American Political Process.

Mr. Kennedy:

Problems in East Asian International Relations. 1962-63.
Topics in Chinese Political and Social Development, from
1911 to 1949.

Miss Leighton:

The World Community and Law. 1962-63.

Journal Club. Students are expected to attend the Journal Club. This meets from time to time during the year to discuss research in progress, recent books and other topics of scholarly interest.

SELECTED UNDERGRADUATE COURSES

- 302a. *Western Political Theory, Plato to 1600:* Mr. Wells.
- 303b. *France and Germany:* Mr. Wells.
- 304a. *Aspects of Latin American Politics and Economics:* Mrs. Marshall and Mr. Baratz.
- 305b. *American Political Theory:* Mr. Bachrach.
- 306a. *Law and Society:* Miss Leighton.
- 309b. *International Law:* Miss Leighton.

Psychology

PROFESSORS:

MORTON EDWARD BITTERMAN, PH.D.,
Chairman

RACHEL DUNAWAY COX, PH.D.

ASSOCIATE PROFESSORS:

DONALD ROBERT BROWN, PH.D.

ROBERT SIMON DAVIDON, PH.D.

WILLIAM AUGUST WILSON, JR.,
 M.D., PH.D.

ASSISTANT PROFESSOR:

RICHARD CHARLES GONZALEZ, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates may find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of the application must submit a score on the Miller Analogies Test.

Major and Allied Subjects. The orientation in the various fields is experimental, and there are no facilities for clinical training. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Education, Mathematics, Philosophy, Political Science, Physics, and Sociology. Students interested primarily in Child Psychology normally major in Education and Child Development.

Language Requirements. Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. (Only one language is necessary because of the requirement in Statistics and Experimental Design.) Candidates for the Ph.D. must pass examinations in two of the three languages.

Program and Examinations for the M.A. The program of work must include three units (six one-semester courses or seminars), which usually will be chosen from the group of courses listed below. Sometime before final approval of the Master's paper, each candidate must pass a written examination in Statistics and Experimental Design. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

Program and Examination for the Ph.D. Candidates are expected to devote a large portion of their time to supervised research. Each candidate must pass the final examination in each of the eight courses listed below. The Preliminary Examination consists of three written papers in areas of specialization chosen by the student with the approval of the Department. A doctoral dissertation presenting the results of independent investigation must be prepared and published. The Final Oral Examination

deals with the dissertation and the field in which it has been written.

GRADUATE COURSES AND SEMINARS

The graduate courses which are regularly offered are listed below. In addition, advanced seminars are offered on specialized problems of mutual interest to faculty and students.

Mr. Bitterman:

Comparative Psychology.

Mr. Brown:

Personality.

Social Psychology.

Mr. Davidon:

Measurement.

Perception.

Mr. Gonzalez:

Human Learning and Thinking.

Mr. Wilson:

Physiological Psychology.

Statistical Methods.

SELECTED UNDERGRADUATE COURSES

201a. *Comparative Psychology*: Mr. Bitterman.

202b. *Psychological Testing*: Mr. Davidon.

203b. *Learning and Thinking*: Mr. Bitterman.

204a. *Experimental Methods and Statistics*: Mr. Wilson.

205a. *Perception*: Mr. Davidon.

301b. *Physiological Psychology*: Mr. Wilson.

302a. *Psychology of the Normal Personality*: Mr. Brown.

303b. *Social Psychology*: Mr. Brown.

304b. *Psychology of the Abnormal Personality*: Mrs. Cox.

307a. *History of Psychology*: Mr. Gonzalez.

Russian

ASSOCIATE PROFESSORS: FRANCES DE GRAAFF, PH.D., *Chairman*
 GEORGE L. KLINE, PH.D.¹

ASSISTANT PROFESSOR: RUTH C. PEARCE, PH.D.

Special Requirements for Graduate Work
 (for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major or minor in Russian with knowledge of Russian Literature and ability to read and speak Russian.

Allied Subjects. Any language or literature, European History, Political Science.

Language Requirements. French and German. In special cases the Department may accept other languages.

Program and Examination for the M.A. Three units of work in Russian or in Russian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

SEMINARS

Seminars offered are selected from the following:

Miss de Graaff:

Serbo-Croatian.

Pushkin and Lermontov.

The Russian Drama.

Mr. Kline:

Russian Critics of the Nineteenth Century.

Poets of the Twentieth Century.

Mrs. Pearce:

History of the Russian Language.

Old Church Slavonic.

SELECTED UNDERGRADUATE COURSES

- 201. *Readings in Russian Literature.*
- [206. *History of Russia: Mr. Herlihy.*]
- 302. *Pushkin and His Time: Miss de Graaff.*
- 303. *Russian Literature of the Twentieth Century: Mr. Kline.*

1. On sabbatical leave, semester I, 1962-63.

Social Work and Social Research

*The Carola Woerishoffer Graduate Department
of Social Work and Social Research*

PROFESSOR:	KATHERINE D. K. LOWER, PH.D., <i>Director of the Department</i> BERNARD ROSS, PH.D.
ASSOCIATE PROFESSORS:	HERTHA KRAUS, PH.D. ¹ EDMUND V. MECH, PH.D. PHILIP LICHTENBERG, PH.D. LOUIS GOLDSTEIN, PH.D. JEAN HARING, M.A., M.S.W. ROSE SEGAL, M.S. JEANNE POLLOCK, M.S.W. MARTIN REIN, PH.D.
ASSISTANT PROFESSORS:	JANE COLLINS KRONICK, PH.D. WILLIAM W. VOSBURGH, PH.D.
INSTRUCTOR:	PATRICIA R. MILLAR, M.S.S.
<hr/>	
PROFESSOR OF EDUCATION AND PSYCHOLOGY:	RACHEL D. COX, PH.D.
ASSOCIATE PROFESSOR OF SOCIOLOGY:	EUGENE V. SCHNEIDER, PH.D.
ASSISTANT PROFESSOR IN EDUCATION:	ETHEL W. MAW, PH.D.

Bryn Mawr awards the degrees of Doctor of Philosophy and Master of Social Service in the Department of Social Work and Social Research.* The Department is open to qualified graduates in liberal arts of colleges or universities of recognized standing.

Prerequisites. Psychology and the social sciences, including Economics, Political Science, History, Sociology and Anthropology, provide basic preparation. At least one general course

1. On sabbatical leave for the year 1962-63.

* The prerequisites and program required for the degree of Master of Social Service are described on pp. 33-34. The statement here refers only to the Ph.D. in Social Work and Social Research.

in each field is important, as well as concentration in one as a major field. A basic course in Statistics is also desirable. In general, applicants for the Ph.D. are expected to have completed work for a Master's degree, or its equivalent, in social work.

The program leading to the Ph.D. degree is designed primarily for social workers who wish to prepare for research, teaching and administration in the broad field of social welfare. The curriculum for the Ph.D. degree includes work in the three following areas of study: Social Welfare, the Social Sciences, and Research Methods.

The specific program of study is planned to meet the needs of the individual student, including course work in the Department and in other departments of the Graduate School, which would usually be Psychology, Sociology and Anthropology, Economics, Education and Child Development, or Political Science. The major field will be selected from the fields of social welfare or research. The allied field or fields may be selected from social welfare or from the social sciences.

Major and Allied Fields. The major and allied fields may be selected from the field of Social Work. At the same time, some work in one of the allied fields of Sociology, Psychology, Anthropology or Economics, selected with a view to its contribution to the major field of the student's interest, is recommended. For the degree, substantial work in Statistics is also required.

Language Requirements. By special action of the faculty, a reading knowledge of only one language is required for the Ph.D. in Social Work. The language required is French, but in special cases another language may be substituted.

Program and Examinations. The program of study is individually planned to cover major and allied fields. Seven units of work will normally be suggested as a minimum. The Preliminary Examination in major and allied fields consists of four written papers and an oral examination testing the candidate's general knowledge of the fields.

A *Bulletin* of the Department is issued biennially, containing descriptions of requirements and courses offered. A copy may be obtained by writing to the Director of the Department.

Sociology and Anthropology

PROFESSOR: FREDERICA DE LAGUNA, PH.D.,¹ *Chairman*

ASSOCIATE PROFESSOR: EUGENE V. SCHNEIDER, PH.D.

LECTURERS IN

ANTHROPOLOGY: JANE C. GOODALE, PH.D.
 HAROLD W. SCHEFFLER, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

ANTHROPOLOGY

Prerequisites. A good undergraduate preparation in Anthropology and/or Sociology. Some undergraduate training in History, or Psychology, or in another social science, is also desirable. Students whose undergraduate training is not entirely adequate will be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Major and Allied Subjects. Students who specialize in Anthropology may be expected to do some work in Sociology. For other allied subjects, see the special requirements for the Ph.D. in Anthropology.

Language Requirements. Candidates for the M.A. or Ph.D. in Anthropology must offer two modern languages.

Program and Examination for the M.A. The program consists of three units of work in seminars or advanced undergraduate courses arranged for seminar credit. One of these may be taken in Sociology. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

1. On sabbatical leave for the year 1962-63.

Program and Examinations for the Ph.D. All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department. (For exchange arrangements with other institutions, see page 27.) The Preliminary Examination will consist of four three-hour written papers and an oral examination of one hour.

The Preliminary Examination for candidates for the *Ph.D. in Anthropology* will be in (1) Anthropological Theory and History of Anthropology, (2) and (3) two examinations in more specialized fields in Anthropology, such as Primitive Religion, Cultural Dynamics, Ethnography or Archaeology of one major culture area, etc. and (4) an examination in an allied field, such as Sociology or Psychology. In addition, students will be expected to be familiar with the principles of two of the following subjects: Physical Anthropology and/or Human Paleontology, Prehistoric or American Archaeology, Linguistics. These requirements may be satisfied by courses taken at any institution approved by the Department, or competence may be tested by examination.

SEMINARS AND GRADUATE COURSES IN ANTHROPOLOGY

Depending upon the needs of the students these may be offered either as full year courses (1 unit of credit), or as semester courses ($\frac{1}{2}$ unit of credit).

Miss de Laguna:

American Archaeology. 1963-64.

Miss Goodale:

Social Organization of Primitive Peoples (Semester I).

The Culture of Australian Aborigines (Semester II).

SELECTED UNDERGRADUATE COURSES

203a. *Primitive Culture*: Mr. Scheffler.

203b. *Primitive Society*: Mr. Scheffler.

208a. *Human Evolution*: Miss Goodale.

301b. *Cultural Theory*: Miss Goodale.

303a. *Problems of Ethnology in Oceania*: Mr. Scheffler.

Also available at the University of Pennsylvania under the Reciprocal Plan are graduate courses and seminars in Anthropology and in Sociology. Students are also urged to join the Philadelphia Anthropological Society which meets once a month at the University of Pennsylvania Museum.

SOCIOLOGY

Prerequisites. A good undergraduate preparation in Sociology, or some closely related social science is desirable. Students whose undergraduate training is not entirely adequate may be required to take certain undergraduate courses. Advanced undergraduate courses can usually be taken for graduate credit.

Major and Allied Subjects. Students will be expected to take some work in allied fields. In addition courses at the University of Pennsylvania in Sociology or allied fields may be taken for credit.

Language and Statistics Requirements. Candidates for the M.A. must offer one modern language and statistics. Candidates for the Ph.D. must offer two languages; these will normally be German and French, except in special cases.

Program and Examination for the M.A. The program consists of three units of work. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to have had, or to take, at least one year's graduate work at another institution approved by the Department, except in special cases. (For exchange arrangements with other institutions, see page 27.)

The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in (1) Sociological Theory, (2) Comparative Social Institutions, (3) an allied field, for instance in Anthropology, Social Psychology, Economics, Political Science, History, (4) a specialized subject within the

field of Sociology. In addition, the student will be expected to be familiar with Statistics and the methods of Social Research.

SEMINARS AND GRADUATE COURSES IN SOCIOLOGY

One seminar a year will be given from among the following topics:

Sociological Theory.

Social Institutions.

Theories of Social Change.

Sociology of Knowledge.

Industrial Sociology.

SELECTED UNDERGRADUATE COURSES

Advanced courses in this department and in allied fields at Bryn Mawr and Haverford may be offered for credit under special conditions.

Also available at the University of Pennsylvania under the Reciprocal Plan are graduate courses and seminars in Sociology and allied fields.

Spanish

ASSISTANT

PROFESSOR: WILLARD FAHRENKAMP KING, PH.D.,
Chairman

VISITING LECTURER

IN SPANISH AND

HISTORY OF ART: ENRIQUE LAFUENTE FERRARI, PH.D.

LECTURER:

PHYLLIS TURNBULL, *D.en F.L.*

INSTRUCTOR:

MIGUEL GONZALEZ-GERTH, M.A.

DEAN OF THE

COLLEGE: DOROTHY NEPPER MARSHALL, PH.D.

PROFESSOR OF

PHILOSOPHY: JOSÉ MARIA FERRATER MORA, *Lic. F.L.*

Special Requirements for Graduate Work
(for the general requirements, see pp. 28-34)

Prerequisites. An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology.

Language Requirements. For the M.A. two romance languages other than Spanish, or one romance language and German. For the Ph.D. German and French; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; if it does not, Latin will have to be included in the graduate program.

Program and Examination for the M.A. The program consists of two units of graduate work in Spanish and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed as early as possible with the member of the Department with whom the candidate plans to work on her dissertation.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Members of the Department.

[*Galdós* (Semester I and II).]

A detailed study of Galdós as novelist and dramatist against the background of nineteenth-century Spanish history and thought.

Ideological Currents in Renaissance Spain.

Platonism, Mysticism, Erasmism, and the Counter-Reformation.

[*The Mediaeval Castilian Epic* (Semester I).]

A study of historical and literary problems surrounding the Castilian epic, with particular attention to the *Cantar de Mio Cid*.

[*The Mediaeval Castilian Lyric* (Semester II).]

The origins and development of Castilian Lyric poetry. An intensive study will be made of the *Libro de Buen Amor*.

[*Prose Fiction of the Renaissance.*]

From *La Celestina* to *Don Quixote*.

[*The Poetry of the Golden Age.*]

The evolution of Spanish poetry from Garcilaso to Góngora.

SELECTED UNDERGRADUATE COURSES

- 302a. *Mediaeval Spanish Literature*: Miss Turnbull.
- [303a. *Modern Novel in Spain*: Mrs. King.]
- [303b. *Modern Spanish Poetry*: Mr. Lloréns.]
- 304a. *Drama of the Golden Age*: Mrs. King.
- 304b. *The Age of Cervantes*: Mrs. King.
- [305. *Prose Fiction of the Renaissance.*]
- 306b. *The Eighteenth Century: The World of Goya*: Mr. Lafuente.

How to Get to Bryn Mawr

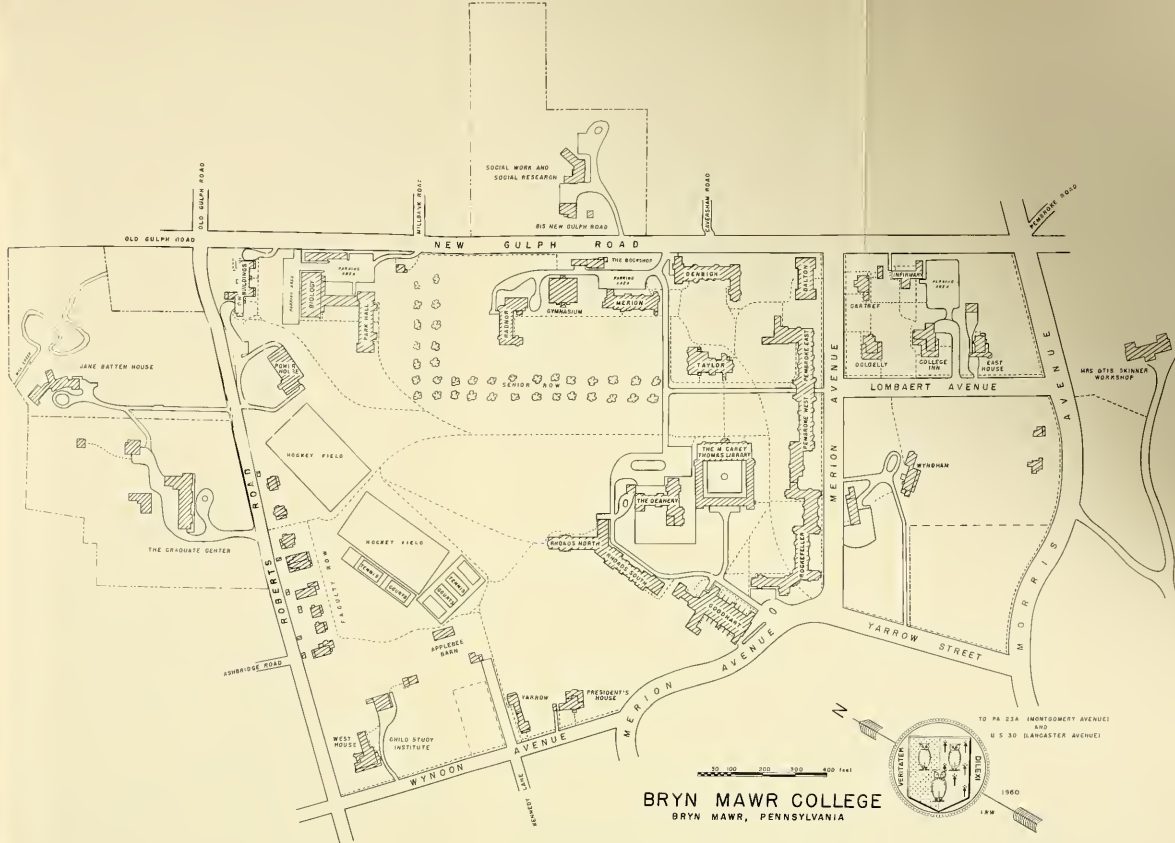
Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.



BRYN MAWR

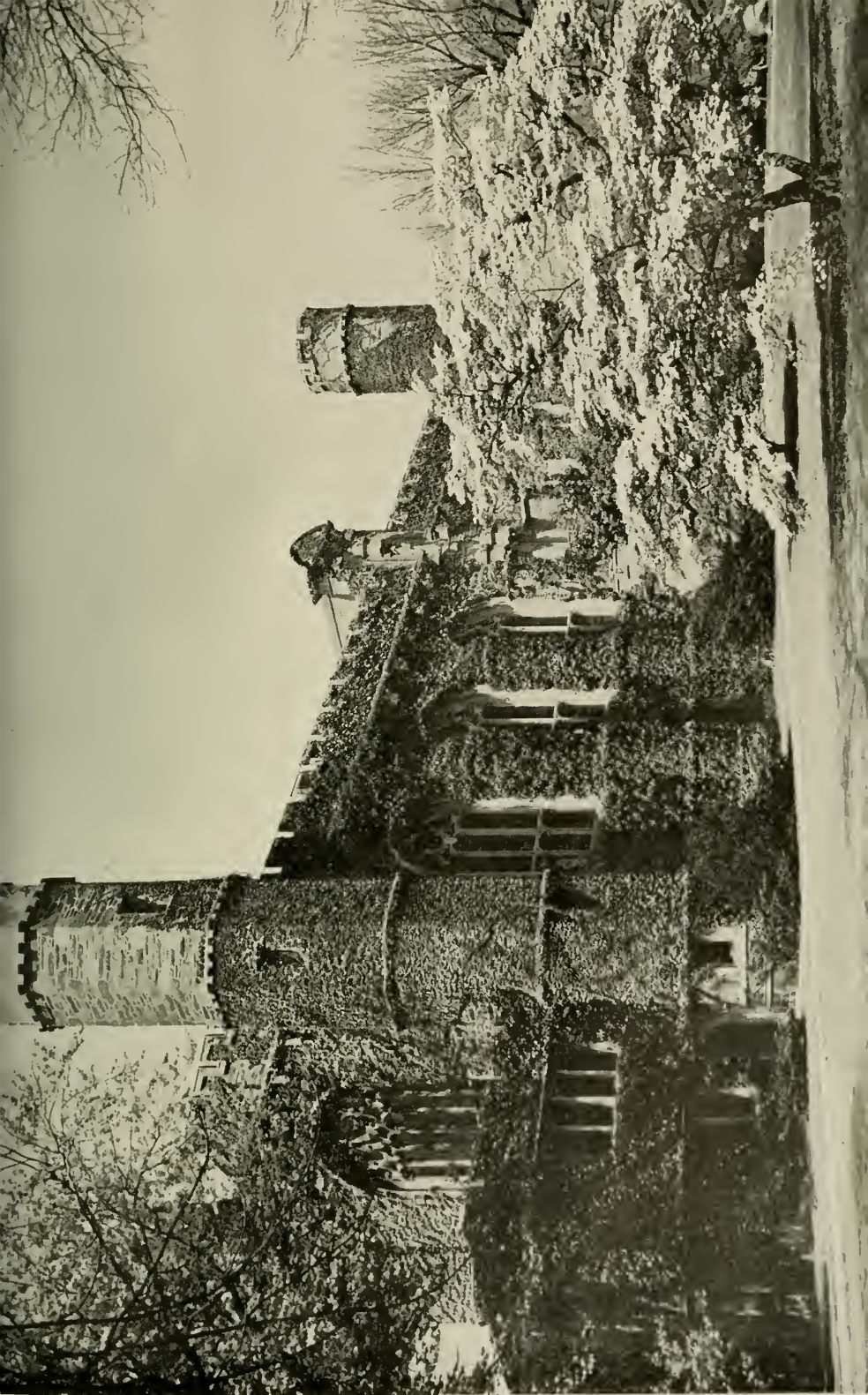
THE GRADUATE SCHOOL 1962-196

RYN MAWR

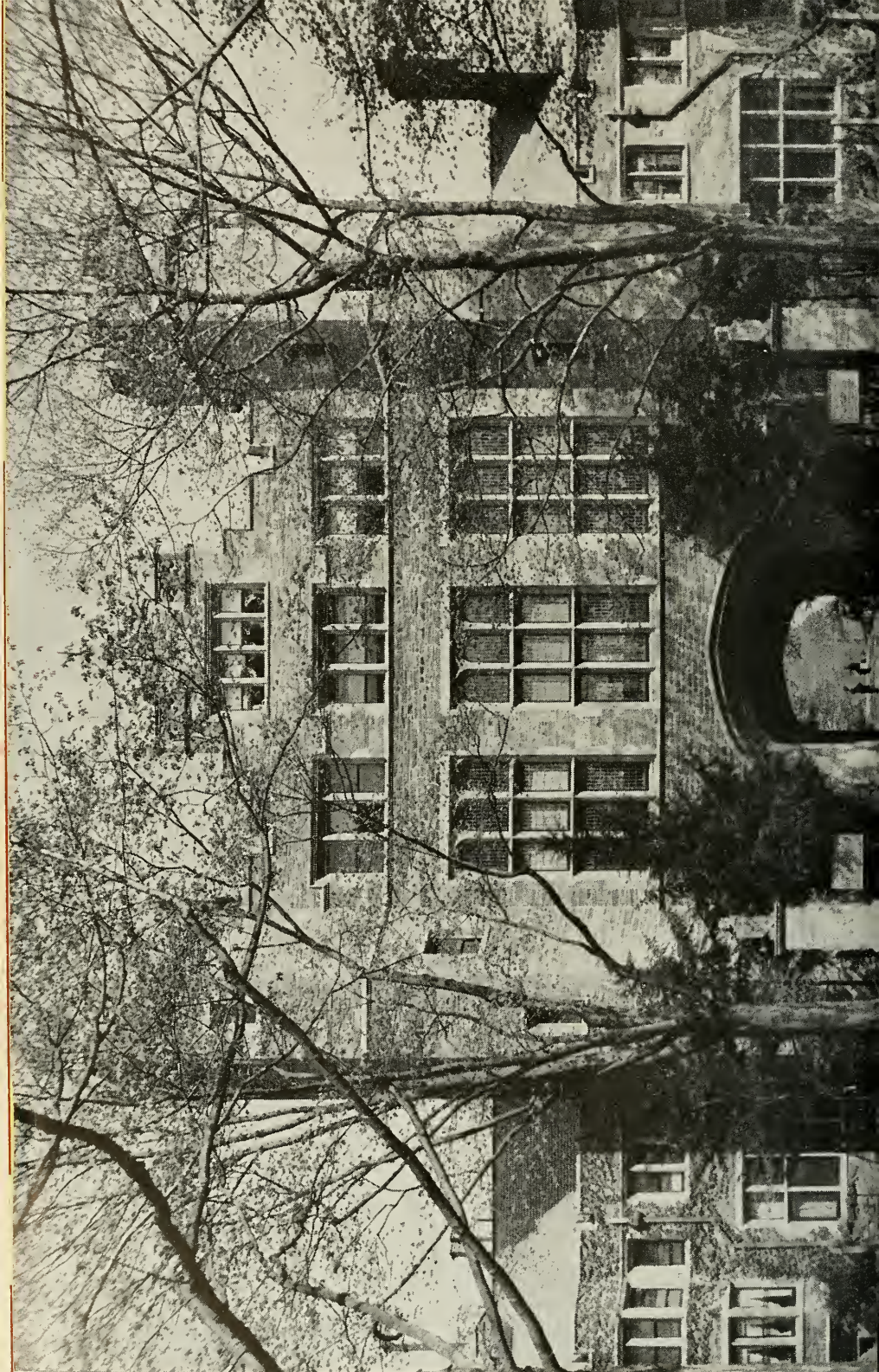
COLLEGE CALENDAR

1962 | 1963

UNDERGRADUATE COURSES



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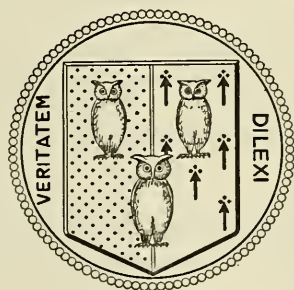
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Bryn Mawr College Calendar

UNDERGRADUATE COURSES

ISSUE FOR THE SESSION OF

1962-1963



AUGUST 1962

Volume LV

Number 3

VISITORS to the College are welcome, and when the College is in session student guides are available to show visitors the campus. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after Labor Day the offices are closed on Saturdays.

Whenever possible, visitors are urged to write in advance for appointments. Prospective students are encouraged to secure information about the College from local College Representatives, whose names and addresses are listed on pages 138-147.

CORRESPONDENCE

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania.

Correspondence regarding the following subjects should be addressed to:

The President

General interests of the College

The Dean

Academic work, personal welfare and health of the students

The Director of Admissions

Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School

Admission to the Graduate School and graduate scholarships

The Director of Halls

Rooms in the halls of residence

The Comptroller

Payment of bills

The Director of the Bureau of Recommendations

Recommendations for positions and inquiries regarding students' self-help

The Alumnae Secretary

Regional scholarships and loan fund

BRYN MAWR COLLEGE CALENDAR. Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa.

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1962	1963	1964
S M T W T F S	S M T W T F S	S M T W T F S
JULY	JANUARY	JANUARY
1 2 3 4 5 6 7	... 1 2 3 4 5	... 1 2 3 4
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30 31	30	

College Calendar

1962-1963

1962

FIRST SEMESTER

September 21 (*Friday*). Halls of residence open to entering class at 8 A.M.

September 23 (*Sunday*). Halls of residence open to all returning undergraduate students at 8 P.M.

September 25 (*Tuesday*). The 78th academic year begins at 9 A.M.

November 21 (*Wednesday*). Thanksgiving holiday begins after last class

November 26 (*Monday*). Thanksgiving holiday ends at 9 A.M.

December 14 (*Friday*). Christmas vacation begins at 12:45 P.M.

1963

January 3 (*Thursday*). Christmas vacation ends at 9 A.M.

January 18 (*Friday*). Last day of lectures

January 21 (*Monday*). College examinations begin

January 31 (*Thursday*). College examinations end

SECOND SEMESTER

February 4 (*Monday*). The second semester begins at 9 A.M.

March 29 (*Friday*). Spring vacation begins after last class

April 8 (*Monday*). Spring vacation ends at 9 A.M.

May 17 (*Friday*). Last day of lectures

May 20 (*Monday*). College examinations begin

May 31 (*Friday*). College examinations end

June 3 (*Monday*). Conferring of degrees and close of the 78th academic year

The Academic Schedule is listed on pages 148-149.

The Trustees of Bryn Mawr College

J. EDGAR RHOADS, *President*

MILLICENT CAREY MCINTOSH¹ ELIZABETH GRAY VINING²
Vice-Presidents

JOHN E. FORSYTHE <i>Treasurer</i>	AGNES BROWN LEACH ³ <i>Secretary</i>
J. TYSON STOKES <i>Assistant Treasurer</i>	MARGARET TYLER PAUL ⁴ <i>Assistant Secretary</i>

Trustees

RICHARD MOTT GUMMERE	JOHN E. FORSYTHE
AGNES BROWN LEACH ³	JOHN S. PRICE
MILLICENT CAREY MCINTOSH ¹	ALLEN MCKAY TERRELL
J. EDGAR RHOADS	AMOS JENKINS PEASLEE
C. CANBY BALDERSTON	JONATHAN E. RHOADS
ELIZABETH GRAY VINING ²	JAMES WOOD
HENRY JOEL CADBURY	

The Board of Directors

HENRY JOEL CADBURY, *Chairman*

ELEANOR LITTLE ALDRICH⁵ ELIZABETH GRAY VINING²
Vice-Chairmen

JOHN E. FORSYTHE <i>Treasurer</i>	AGNES BROWN LEACH ³ <i>Secretary</i>
J. TYSON STOKES <i>Assistant Treasurer</i>	MARGARET TYLER PAUL ⁴ <i>Assistant Secretary</i>

Directors

RICHARD MOTT GUMMERE	J. TYSON STOKES
AGNES BROWN LEACH ³	PHYLLIS GOODHART GORDAN ⁶
MILLICENT CAREY MCINTOSH ¹	ALICE PALACHE JONES ⁷
J. EDGAR RHOADS	ELEANOR MARQUAND DELANOY ⁸
C. CANBY BALDERSTON	AGNES CLEMENT INGERSOLL ⁹
ELIZABETH GRAY VINING ²	BARBARA COLBRON
HENRY JOEL CADBURY	<i>Alumnae Director, 1957-1962</i>
JOHN E. FORSYTHE	JANE YEATMAN SAVAGE ¹⁰
JOHN S. PRICE	<i>Alumnae Director, 1958-1963</i>
ALLEN MCKAY TERRELL	ANGELA JOHNSTON BOYDEN ¹¹
AMOS JENKINS PEASLEE	<i>Alumnae Director, 1959-1964</i>
JONATHAN E. RHOADS	KATHARINE STRAUSS WALI ¹²
JAMES WOOD	<i>Alumnae Director, 1960-1965</i>
KATHARINE ELIZABETH MCBRIDE	MARY HALE CHASE ¹³
ELEANOR LITTLE ALDRICH ⁵	<i>Alumnae Director, 1961-1966</i>
EDITH HARRIS WEST, <i>by invitation</i> ¹⁵	ELIZABETH CURRAN WARREN ¹⁴
<i>President of the Alumnae Association</i>	<i>Alumnae Director, 1962-1967</i>

Standing Committees of the Board of Directors for 1962

Executive Committee

MR. RHOADS, *Chairman*
MR. CADBURY, *ex officio*
MRS. ALDRICH
MRS. DELANOY
MR. FORSYTHE
MRS. GORDAN
MRS. LEACH
MISS MCBRIDE
MRS. MCINTOSH
MRS. SAVAGE
MR. STOKES

Buildings and Grounds Committee

MR. PRICE, *Chairman*
MRS. GORDAN, *Vice-Chairman*
MR. CADBURY, *ex officio*
MRS. CHASE
MISS COLBRON
MRS. DELANOY
MRS. INGERSOLL
MISS MCBRIDE
MR. PEASLEE
MR. RHOADS

Finance Committee

MR. FORSYTHE, *Chairman*
MR. RHOADS, *ex officio*
MRS. JONES
MRS. LEACH
MR. PRICE
MR. STOKES
MR. TERRELL

Library Committee

MRS. GORDAN, *Chairman*
MRS. ALDRICH
MRS. BOYDEN
MRS. MALI
MISS MCBRIDE
MRS. SAVAGE
MRS. VINING

Religious Life Committee

MISS MCBRIDE, *Chairman*
MR. CADBURY
MRS. BOYDEN
MRS. INGERSOLL
MRS. MCINTOSH
DR. RHOADS
MR. STOKES
MRS. VINING

-
1. Mrs. Rustin McIntosh
 2. Mrs. Morgan Vining
 3. Mrs. Henry Goddard Leach
 4. Mrs. Samuel H. Paul
 5. Mrs. Talbot Aldrich
 6. Mrs. John D. Gordan, Jr.
 7. Mrs. Russell K. Jones
 8. Mrs. Douglas Delaney

9. Mrs. C. Jared Ingersoll
10. Mrs. Ernest C. Savage
11. Mrs. Willard N. Boyden
12. Mrs. Henry J. Mali
13. Mrs. G. Howland Chase
14. Mrs. Geoffrey S. Warren
15. Mrs. W. Nelson West, III

Faculty and Staff

ACADEMIC YEAR, 1962-1963

KATHARINE ELIZABETH MCBRIDE, PH.D. (Bryn Mawr College),
LL.D., L.H.D., Sc.D., *President of the College*

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of the College*

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the President*

JANET MARGARET AGNEW, B.L.S. (McGill University), M.A. (Uni-
versity of Manitoba), *Head Librarian*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of
Physical Education*

ELIZABETH HUMESTON, M.D. (Cornell University), *College Phy-
sician*

RHYS CARPENTER, PH.D. (Columbia University), Litt.D., *Profe-
sor Emeritus of Classical Archaeology*

GRACE MEAD ANDRUS DE LAGUNA, PH.D. (Cornell University),
Professor Emeritus of Philosophy

MAX DIEZ, PH.D. (University of Texas), *Professor Emeritus of
German Literature*

CHARLES GHEQUIÈRE FENWICK, PH.D. (Johns Hopkins Univer-
sity), LL.D., *Professor Emeritus of Political Science*

GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus
of Old French*

STEPHEN JOSEPH HERBEN, B.Litt., PH.D. (Princeton University),
Professor Emeritus of English Philology

MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor
Emeritus of German*

- HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor Emeritus of History*
- CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*
- FRITZ MEZGER, PH.D. (University of Berlin), *Professor Emeritus of Germanic Philology*
- MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*
- LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin*
- ANNA PELL WHEELER, PH.D. (University of Chicago), Sc.D., *Professor Emeritus of Mathematics*
- THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin, Secretary of the Faculty*
- HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music and Visiting Professor*
- ERNST BERLINER, PH.D. (Harvard University), *Professor of Chemistry*
- L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*
- MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Professor of Psychology*
- ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean of the Graduate School and Professor of Biology*
- RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Professor of Education and Psychology*
- FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*¹
- LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*
- JOSÉ MARIA FERRATER MORA, *Licenciado en Filosofía* (University of Barcelona), *Professor of Philosophy*
- MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College), *Professor of Biology*

1. On sabbatical leave for the year, 1962-1963.

- ROBERT L. GOODALE, A.B., B.Mus. (Yale University), A.A.G.O.,
Professor of Music
- JOSHUA C. HUBBARD, PH.D. (Harvard University), *Professor of Economics*
- AGI JAMBOR, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*
- MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Professor of Greek*
- RICHMOND LATTIMORE, PH.D. (University of Illinois), LITT.D.,
Paul Shorey Professor of Greek
- MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of Mathematics*
- ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor of Italian*
- KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*
- BERTHE MARIE MARTI, PH.D. (Bryn Mawr College), *Professor of Latin*
- AGNES KIRSOPP LAKE MICHELS, PH.D. (Bryn Mawr College), *Professor of Latin*
- WALTER C. MICHELS, PH.D. (California Institute of Technology),
Marion Reilly Professor of Physics
- CHARLES MITCHELL, M.A., B.LITT. (Oxford University), *Richard M. Bernheimer Professor of History of Art*
- MILTON CHARLES NAHM, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*
- MILDRED BENEDICT NORTHROP, PH.D. (Columbia University), *Professor of Economics*
- JANE MARION OPPENHEIMER, PH.D. (Yale University), *Professor of Biology*
- JOHN C. OXTOPY, M.A. (University of California), *Professor of Mathematics*
- WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*

CAROLINE ROBBINS, PH.D. (University of London), *Professor of History*

ARTHUR COLBY SPRAGUE, PH.D. (Harvard University), *Mary E. Garrett Alumnae Professor of English Literature*

K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and Political Theory*

ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*

EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*

ROGER HEWES WELLS, PH.D. (Harvard University), *Professor of Political Science*

MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College), *Professor of English*

DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of Geology*¹

HUGUES LEBLANC, PH.D. (Harvard University), *Associate Professor and Professor-elect of Philosophy*

MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Associate Professor and Professor-elect of Classical and Near Eastern Archaeology*

BERNARD ROSS, M.S.S.A. (University of Pittsburgh), PH.D. (University of Michigan), *Associate Professor and Professor-elect of Social Work and Social Research*

PETER BACHRACH, PH.D. (Harvard University), *Associate Professor of Political Science*

MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Professor of Economics*

WARNER B. BERTHOFF, PH.D. (Harvard University), *Associate Professor of English*²

DONALD ROBERT BROWN, PH.D. (University of California), *Associate Professor of Psychology*

1. On sabbatical leave for the year, 1962-1963.

2. On leave of absence semester I; sabbatical leave, semester II, 1962-1963.

- ROBERT L. CONNER, PH.D. (Indiana University), *Associate Professor of Biology*
- FREDERIC CUNNINGHAM, JR., PH.D. (Harvard University), *Associate Professor of Mathematics*
- ROBERT SIMON DAVIDON, PH.D. (University of Pennsylvania), *Associate Professor of Psychology*
- FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate Professor of Russian, on joint appointment with Haverford College*
- ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate Professor of History*
- JAMES W. FOWLE, PH.D. (Harvard University), *Associate Professor of History of Art*
- LOUIS GOLDSTEIN, PH.D. (University of Minnesota), *Associate Professor of Social Work and Social Research*
- MICHEL GUGGENHEIM, PH.D. (Yale University), *Associate Professor of French*
- JEAN D. HARING, M.A. (Ohio State University), M.S.W. (University of Michigan), *Associate Professor of Social Work and Social Research*
- DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Associate Professor of History*
- ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Professor of Physics*
- MELVILLE T. KENNEDY, JR., PH.D. (Harvard University), *Associate Professor of Political Science*
- GEORGE L. KLINE, PH.D. (Columbia University), *Associate Professor of Russian and Philosophy*¹
- HERTHA KRAUS, PH.D. (University of Frankfurt), *Carola Woerishoffer Associate Professor of Social Work and Social Research*²
- GERTRUDE C. K. LEIGHTON, A.B. (Bryn Mawr College), LL.B. (Yale University), *Associate Professor of Political Science*³

1. On sabbatical leave for semester I, 1962-1963.

2. On sabbatical leave for the year, 1962-1963.

3. On partial leave of absence for the year, 1962-1963.

PHILIP LICHTENBERG, PH.D. (Western Reserve University), *Associate Professor of Social Research*

WILLIAM C. LOERKE, M.F.A., PH.D. (Princeton University), *Associate Professor of History of Art*

ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Associate Professor of English*

MARIO MAURIN, PH.D. (Yale University), *Associate Professor of French*

EDMUND V. MECH, PH.D. (Indiana University), M.S.S. (Bryn Mawr College), *Associate Professor of Social Work and Social Research*

JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*

EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor of Sociology*

CHRISTOPH E. SCHWEITZER, PH.D. (Yale University), *Associate Professor of German*

ROSE SEGAL, M.S. (Simmons College School of Social Work), *Associate Professor of Social Work and Social Research*

WILLIAM AUGUST WILSON, JR., M.D. (Yale University), PH.D. (University of California), *Associate Professor of Psychology*

GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*

JEANNE C. POLLOCK, M.S.W. (University of Pennsylvania School of Social Work), *Lecturer and Associate Professor-elect of Social Work*

JEAN A. POTTER, PH.D. (Yale University), *Visiting Lecturer and Associate Professor-elect of Philosophy*

MARTIN REIN, M.S.S.W. (New York School of Social Work), PH.D. (Brandeis University), *Associate Professor-elect of Social Work and Social Research*

- JAMES H. BRODERICK, PH.D. (Harvard University), *Assistant Professor of English*
- ROBERT B. BURLIN, PH.D. (Yale University), *Assistant Professor of English*
- ROBERT HAWES BUTMAN, M.A. (University of North Carolina), *Assistant Professor of English on the Theresa Helburn Fund*
- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*
- WILLIAM PAUL GANLEY, PH.D. (University of Buffalo), *Assistant Professor of Physics*
- RICHARD C. GONZALEZ, PH.D. (University of Maryland), *Assistant Professor of Psychology*
- SYLVIA W. KENNEY, PH.D. (Yale University), *Assistant Professor of Music*
- WILLARD FAHRENKAMP KING, PH.D. (Brown University), *Assistant Professor of Spanish*
- JANE COLLIER KRONICK, PH.D. (Yale University), *Assistant Professor of Social Work and Social Research*
- FRANK BRYANT MALLORY, PH.D. (California Institute of Technology), *Assistant Professor of Chemistry*
- RUTH C. PEARCE, PH.D. (University of Pennsylvania), *Assistant Professor of Russian*
- BRUNILDE SISMONDO RIDGWAY, PH.D. (Bryn Mawr College), *Assistant Professor of Classical and Near Eastern Archaeology*
- HUGO SCHMIDT, PH.D. (Columbia University), *Assistant Professor of German*
- JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Assistant Professor of Chemistry*
- MARY MAPLES DUNN, PH.D. (Bryn Mawr College), *Assistant Professor-elect of History*
- ETHEL MAW, PH.D. (University of Pennsylvania), *Lecturer and Assistant Professor-elect of Education and Child Development*

KYLE M. PHILLIPS, JR., PH.D. (Princeton University), *Assistant Professor-elect of Classical and Near Eastern Archaeology*

JEROME REGNIER, PH.D. (Columbia University), *Assistant Professor-elect of Geology*

WILLIAM Z. SHETTER, PH.D. (University of California), *Assistant Professor-elect of German*

BERNARD TOSCANI, PH.D. (University of Pennsylvania), *Instructor and Assistant Professor-elect of Italian and French*

WILLIAM W. VOSBURGH, PH.D. (Yale University), *Instructor and Assistant Professor-elect of Social Work and Social Research*

FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*

GALIA S. BODDE (Far Eastern University), *Part-time Lecturer in Russian*

MILTON BRUTTEN, PH.D. (Northwestern University), *Part-time Lecturer in Education and Child Development*

JOHN P. CHESICK, PH.D. (Harvard University), *Visiting Lecturer in Chemistry for Semester II*

HENNIG COHEN, PH.D. (Tulane University), *Visiting Lecturer in English*

CHARLES J. COOPER, LL.B. (Harvard University), *Part-time Lecturer in Political Science*

ROBERT CORRIGAN, M.A. (University of Pennsylvania), *Part-time Lecturer in English*

SARAH C. FLEMISTER, PH.D. (Duke University), *Part-time Lecturer in Biology*

JANE C. GOODALE, PH.D. (University of Pennsylvania), *Lecturer in Anthropology*

M. PAULINE JONES, M.A. (Middlebury College), *Lecturer in French*

ENRIQUE LAFUENTE FERRARI, PH.D. (University of Madrid), *Visiting Lecturer in Spanish and History of Art for Semester II*

- BARBARA MILLER LANE, PH.D. (Harvard University), *Lecturer in History*
- SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director of Phebe Anna Thorne School and Part-time Lecturer in Education and Child Development*
- HAROLD WALTER SCHEFFLER, M.A. (University of Chicago), *Lecturer in Anthropology*
- ALAN SILVERA, M.A. (Harvard University), *Lecturer in History*
- ROSAMOND KENT SPRAGUE, PH.D. (Bryn Mawr College), *Part-time Lecturer in Philosophy*
- PHYLLIS TURNBULL, D. en F.L. (University of Madrid), *Lecturer in Spanish*
- ERIKA ROSSMAN BEHREND, A.M. (University of Pennsylvania), *Research Associate in Psychology*
- DONALD H. BULLOCK, PH.D. (Columbia University), *Research Associate in Psychology*
- LISELOTTE M. FREED, PH.D. (Columbia University), *Research Associate in Biology*
- HENRY GLEITMAN, PH.D. (University of California), *Research Associate in Psychology*
- JANICE TAYLOR GORDON, PH.D. (Bryn Mawr College), *Research Associate in Chemistry*
- PHOEBE S. LEBOY, PH.D. (Bryn Mawr College), *Research Associate in Biology*
- DOROTHY S. SMYTHE, A.B. (Mount Holyoke College), *Research Associate in Biology*
- LARRY STEIN, PH.D. (University of Iowa), *Research Associate in Psychology*
- MARTHA HELSON WILSON, PH.D. (Yale University), *Research Associate in Psychology*
- GERALD ACKERMAN, M.F.A. (Princeton University), *Instructor in History of Art*
- KATRIN TAEGER BEAN, M.A. (Bryn Mawr College), *Part-time Instructor in German*
- SANDRA M. BERWIND, M.A. (Bryn Mawr College), *Part-time Instructor in English*
- MIGUEL GONZALEZ-GERTH, M.A. (University of Texas), *Instructor in Spanish*

- RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*
- PATRICIA R. MILLAR, M.S.S. (Bryn Mawr College), *Instructor in Social Work and Social Research*
- DORIS QUINN, M.A. (Oxford University), *Part-time Instructor in English*
- PATRICIA HERLIHY, M.A. (University of Pennsylvania), *Part-time Instructor-elect in History for Semester II*
- PETER JOHN LEACH, M.F.A. (Yale University), *Instructor-elect in English*
- ANTHONY JOHN MARSHALL, M.A. (Oxford University), *Instructor-elect in Greek and Latin*
- SUSAN WALSH, B.A. (University of Chicago), *Instructor-elect in French*
- ELEANOR JANE WINSOR, M.A. (Yale University), *Instructor-elect in English*
- UN-JIN PAIK ZIMMERMAN, PH.D. (Bryn Mawr College), *Part-time Instructor-elect in Chemistry*
- FRITZ JANSCHKA, *Akademischer Maler (Akademie der Bildenden Künste), Artist in Residence*
- WILLIAM H. REESE, PH.D. (University of Berlin), *Director of Orchestra*
- ANN HARNWELL ASHMEAD, PH.D. (Bryn Mawr College), *Part-time Assistant in Classical and Near Eastern Archaeology*
- PAUL BAINBRIDGE, B.A. (American University), *Part-time Assistant in Psychology*
- ELIZABETH BANCROFT, A.B. (Vassar College), *Part-time Assistant in English*
- THERESA H. CARTER, PH.D. (Bryn Mawr College), *Part-time Assistant in Classical and Near Eastern Archaeology*
- JOHN CASSIDY, M.A. (Villanova University), *Part-time Assistant in Philosophy*
- PRISCILLA COHN, A.B. (Bryn Mawr College), *Part-time Assistant in Philosophy*
- STILES DEAN EZELL, A.B. (Lafayette College), *Part-time Assistant in Biology*
- ANN FAGAN, M.A. (Bryn Mawr College), *Part-time Assistant in History*

- MARY ANN FRITZ, M.S. (University of Pennsylvania), *Part-time Assistant in Biology*
- RICHARD A. GILLIS, A.B. (Kenyon College), *Part-time Assistant in Political Science*
- RICHARD STANDISH GOOD, M.S. (Pennsylvania State University), *Part-time Assistant in Geology*
- SADJA HERZOG, B.A. (Carleton College), *Part-time Assistant in History of Art*
- THOMAS J. HIGGINS, B.S. (St. Joseph's College), *Part-time Assistant in Physics*
- BEVERLY MARSTERS, A.B. (University of New Hampshire), *Part-time Assistant in Geology*
- JANE R. MCCONNELL, PH.D. (Bryn Mawr College), *Part-time Assistant in Biology*
- SANDRA MILSTEIN, M.A. (Bryn Mawr College), *Part-time Assistant in Psychology*
- ROBERT E. NEEL, B.S. (Norwich University), *Part-time Assistant in Physics*
- DAVID W. NEWMAN, M.A. (University of Pennsylvania), *Part-time Assistant in Chemistry*
- FRANCES C. PASCALE, A.B. (Albertus Magnus College), *Part-time Assistant in Mathematics*
- JEANNETTE STOOPS, M.S. (Purdue University), *Part-time Assistant in Economics*
- IMRE A. SZALAI, B.A. (North Central College), *Part-time Assistant in Physics*
- PRISCILLA WATSON, A.B. (Reed College), *Part-time Assistant in Physics*
- CLELIA S. WOOD, M.A. (Bryn Mawr College), *Part-time Assistant in Chemistry*

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- MARIAN CARTER ANDERSON, B.S. (Simmons College), *Recorder of the College*
- CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*
- LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*

KATHERINE A. GEFFCKEN, PH.D. (Bryn Mawr College), *Assistant Dean of the College*

CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*

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JULIE E. PAINTER, A.B. (Bryn Mawr College), *Assistant to the Director of Admissions*

CLARISSA WARDWELL PELL, *Executive Director of the Resources Committee*

PATRICIA ONDERDONK PRUETT, M.A. (Bryn Mawr College), *Assistant Dean of the College*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

Library

JANET MARGARET AGNEW, B.L.S. (McGill University), M.A. (University of Manitoba), *Head Librarian*

PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

DOROTHY V. McGEORGE, B.S.L.S. (Drexel Institute), *Order Librarian*

YILDIZ VAN HULSTEYN, M.S.L.S. (Drexel Institute), *Librarian, West Wing*

ETHEL W. WHETSTONE, A.B.L.S. (University of North Carolina), *Circulation Department*

SHEILA M. CARSON, M.L.S. (Simmons College), *Assistant in Cataloguing Department*

ELIZABETH C. E. GREENALL, M.L.S. (McGill University), *Assistant in Cataloguing Department*

MARION C. MADER, M.S.L.S. (Drexel Institute) *Assistant in Cataloguing Department*

LOIS E. WELLS, M.S.L.S. (Drexel Institute), *Assistant in Circulation Department*

Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

Halls of Residence

- ANN BISHOP, M.A. (University of Pennsylvania), *Warden-elect*
 MARY ANN CALKINS, A.B. (Rice University), *Warden-elect*
 CAROLYN CROW, M.A. (University of California), *Warden-elect*
 JEANNE GRATTARD, *License d'Anglais* (University of Lyons),
Warden-elect of Wyndham
 DULCIE GROVES, B.A. (University of Nottingham), *Warden of*
Denbigh
 ARLENE KRIMGOLD, A.B. (Tufts University), *Warden-elect*
 MARYANN ROBBINS, M.A. (University of North Carolina), *Warden*
of Merion
 CORNELIA SARVAY, B.A. (Sophie Newcomb College), *Warden-*
elect
 SHARON WALL, B.A. (University of Michigan), *Warden-elect*
 MARCIA VOGEL, M.A. (Bryn Mawr College), *Senior Resident of*
the Graduate Center

Health

- ELIZABETH HUMESTON, M.D. (Cornell University), *College Physi-*
cian
 FRIEDA W. WOODRUFF, M.D. (University of Pennsylvania), *As-*
stant College Physician
 JOHN F. HOWKINS, M.D. (Columbia University, College of Physi-
 cians and Surgeons), *Consulting Psychiatrist*
 HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting*
Psychiatrist
 IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of*
Physical Education

Physical Education

- IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of*
Physical Education
 ETHEL GRANT, *Instructor in Physical Education*
 GLORIA SCHMIDT, M.A. (New York University), *Instructor in*
Physical Education
 JANET A. YEAGER, *Instructor in Physical Education*

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania),
Director

ELIZABETH PRESTON, M.S.S. (Bryn Mawr College), *Social Caseworker*

ELIZABETH WHEELER, M.S.S. (Bryn Mawr College), *Social Caseworker*

ANDRINA DUFF, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

ELIZABETH EMLÉN, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

VIRGINIA G. KEEN, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*

BEATRICE SCHNEIDER, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSON, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

ELI HARMON, M.D. (Tulane University School of Medicine), *Consulting Psychiatrist*

JONAS B. ROBITSCHER, M.D. (George Washington University), *Consulting Psychiatrist*

HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*

CAROL HATCH ROBERTS, A.B. (Wilson College), *Assistant in Psychology*

Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*

GEORGIANNA ENGSTROM, A.B. (University of Minnesota), *Teacher*

KATHARINE N. MCLEAN, A.B. (Bryn Mawr College), *Assistant Teacher*

CAROLYN SHANE, A.B. (Boston University), *Assistant Teacher*

Introduction

BRYN MAWR COLLEGE was founded by a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

This concern about opportunity for women to study at the university level was first felt by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college for women with undergraduate instruction for the A.B. and graduate instruction for the M.A. and Ph.D. degrees in all departments.

Dr. Taylor as he planned the College thought first of the education of young Friends. He expressed the "desire that all having any connexion with this Institution shall endeavor to instil into the minds and hearts of the students, the Doctrines of the New Testament as accepted by Friends." As Dr. Taylor's trustees in the early years considered the policies of the College they found themselves bound to allow freedom of conscience to all students. By 1893 it is clear from their studies and reports that they were determined to maintain a non-denominational college while strongly supporting the Friends' position of freedom of conscience and providing for continued opportunity within the College and through the College to encourage the student to develop and strengthen her own religious faith.

The first president of Bryn Mawr College was James E. Rhoads, a retired physician and one of the Trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads.

In 1922, she was followed by Marion Edwards Park, already distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Bryn Mawr has preserved the purpose and much of the tradition of its founders. It believes that intellectual enrichment and discipline provide a sound foundation for living. It believes in the rights of the individual and in freedom to think and act as intelligent and responsible members of a democratic society.

By the terms of its charter Bryn Mawr College provides instruction in the liberal arts and sciences on both the undergraduate and graduate level. Members of the faculty usually combine graduate and undergraduate teaching. Teaching and research are found to complement each other, and the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so obscure that it may not profit from a breadth of perception.

Believing that a small college provides the most favorable opportunity for the students to participate actively in their own education, Bryn Mawr College limits the number of undergraduates to approximately seven hundred students. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 88 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research, yet the College remains a compact unit for living and working.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and

Swarthmore College in a plan which coordinates the facilities of the three institutions while preserving the individual qualities and autonomy of each.

Bryn Mawr College sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectureships bring scholars and other leaders in world affairs to the campus for series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the humanities and of the Anna Howard Shaw Lecturer in the social sciences, and by various individual lecturers in many of the departments of the College. Several of the student organizations also arrange conferences and lectures both on current national and international problems and within particular fields of interest. The musical, dramatic and dance productions of the College are directed and arranged by the appropriate student organizations, often in cooperation with Haverford College students, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop provides facilities for experimental theater work and a studio for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity. Two large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many specialized clubs and societies which are open to all and which provide opportunities for critical and creative efforts.

The Interfaith Association invites students of all faiths to take part in its work. The Association is aided by the Committee on Religious Life of the Board of Directors and by the staff of the College. Its objectives are to bring students in touch with their churches, to sponsor lectures or discussion on religious

subjects, to plan services for worship and to take the responsibility for giving students an opportunity to pursue and extend their religious interests.

Other major student associations are concerned with political affairs, community service, the arts and athletics. The Alliance for Political Affairs sponsors lectures and a series of groups organized for discussion or action. The Bryn Mawr League concerns itself with problems of social welfare and various branches of social service to the community at large. The Arts Council, independently or with other associations, sponsors work and performances or exhibitions in the arts. The Athletic Association plans the extra-curricular athletic program.

Opportunities for the cultivation of clear thinking and informed reasoning, for exercise in the privileges and responsibilities of community life, and for practice in the critical and creative arts are present to each undergraduate student at Bryn Mawr. As she continues through the four undergraduate years, she should begin to know too the personal satisfactions and rewards that are the common heritage of scholars.

Admission

BRYN MAWR COLLEGE is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school principal and some of her teachers for an estimate of her character, maturity and readiness for college.

The Director of Admissions welcomes correspondence and interviews with candidates, their parents and school advisers. Representatives of the College and of the Alumnae Association and Alumnae Information Chairmen in various sections of the country are glad to interview candidates. Names and addresses may be secured from the Admissions Office.

The College admits only candidates for a degree, not special students.

PROGRAM OF SECONDARY SCHOOL STUDIES

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving excellent preparation for study at Bryn Mawr would be, for example, as follows: English grammar, composition and literature throughout four years; Mathematics, emphasizing basic algebraic, geometric and trigonometric concepts and deductive reasoning; a good foundation in one modern language and in Latin or Greek; some work in History and at least one course in science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up the total of 16 credits generally recommended for admission to the College.

Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs that

differ from the one described above. The College is glad to consider applications provided such students have maintained good records and continuity in the study of basic subjects.

APPLICATION FOR ADMISSION

Students are advised to apply for admission to Bryn Mawr between the end of the junior year and January 1 of the senior year of high school. The College welcomes earlier consultation about school programs.

Only in exceptional circumstances will applications to the freshman class be accepted after January 1 of the student's senior year.

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of \$15 must accompany each application and is not refundable.

ENTRANCE TESTS

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates with the exception of students who have been admitted to the universities of other countries. The Aptitude and Achievement Tests should be taken in December or January of the senior year in secondary school. Bryn Mawr prefers that candidates offer Achievement Tests in English, in a foreign language, and in one of the following: Social Studies, one of the sciences, or in Intermediate or Advanced Mathematics. Bryn Mawr does not require the English Writing Sample offered by the College Board. A student taking the Writing Sample for another college, however, should have the sample sent to Bryn Mawr. No special preparation, other than work well done in a good school, is required for successful performance on these tests. A trial run of the Scholastic Aptitude Test in March or May of a student's junior year is advised. Candidates will be notified late in April of the senior year as to whether or not they will be admitted to the College.

Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey, or P.O. Box 27896, Los Angeles 27, California.

EARLY DECISION PLAN

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (by the middle of November) as to the action taken on her application, provided she follows the plan outlined below:

1. She must be recommended by her school as a strong candidate and must take her *final* Scholastic Aptitude and three Achievement Tests (English and any two others) in March or May of the junior year.
2. After her school has reviewed the results of these tests together with her three-year high school record, she must file before October 1, in addition to a regular application, a statement obtained from the College that she is a candidate under the Early Decision Plan.
3. She will be notified by the College by the middle of November (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission, repeating the Scholastic Aptitude Test and three Achievement Tests in the winter of her senior year, and filing an application with at least one other college, or (3) that she will not be admitted to Bryn Mawr.
4. A student who has been assured of admission will be asked to make a deposit of \$200 by February 1 if she wishes to reserve a place in residence at Bryn Mawr College. This deposit will be deducted from her first semester bill.

ADVANCED PLACEMENT

Students who have carried advanced work in school and who have honor grades on the Advanced Placement Tests of the College Entrance Examination Board may, after consultation with the Dean and the departments concerned, be admitted to one or more advanced courses in the freshman year. Bryn Mawr accepts Advanced Placement Tests with honor grades in the relevant subjects as exempting the student from college requirements for the A.B. degree.¹ As in the case of summer school work, with the approval of the Dean and the departments concerned, one or more Advanced Placement Tests with honor grades may be presented for credit. Students who enter with three or more Advanced Placement Tests passed with honor grades may apply for sophomore standing.

1. The grade of 5 is required in English and in History.

The Advanced Placement Tests are given at College Board centers in May.

Students should also see the Dean about the advisability of taking placement tests given by the College during Freshman Week.

TRANSFER AND FOREIGN STUDENTS

Students are admitted on transfer from American and foreign colleges and universities approved by the College. To be admitted on transfer, a student must have an excellent school record and, in college work, at least a high "B" average. A transfer applicant should submit to the College:

1. A letter explaining why she wishes to transfer and her plans for the major subject.
2. A current catalogue of her own college, in which she has marked the courses taken.
3. Transcripts of her high school and college courses.
4. Official test reports from the College Entrance Examination Board on the Scholastic Aptitude Test and three Achievement Tests if the candidate has taken them previously.

Transfer candidates who have not taken these tests will be required to take only the Scholastic Aptitude Test in the March or May series. Information concerning this test and applications to take it may be obtained from the College Entrance Examination Board. (For address see page 27.)

Foreign students may substitute for the College Board tests evidence that they have been admitted to universities in their own countries. Those whose native language is not English must also present credentials attesting to proficiency in English.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree, transfer students must complete two years of study here. Students of other colleges or universities who have failed to meet the prescribed standards of academic work, or who have been put on probation or suspended or excluded, will under no circumstances be admitted.

READMISSION

A student who is on a leave of absence or who has withdrawn from College is not automatically readmitted. She should make application for readmission to the Director of Admissions not later than April 1 of the year in which admission is sought.

Academic Facilities and Residence

THE LIBRARY

THE M. CAREY THOMAS LIBRARY, containing about 285,000 volumes, is equipped to serve advanced graduate students and faculty as well as undergraduates. It is both a research and a study library. Periodicals in all subjects, of which about one thousand are currently received, contribute materially to the value of the collection.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room make readily available standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Rooms, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions and association copies. Exhibitions of items selected from the library's own resources and of material lent by friends of the Library are held at intervals during the academic year. Here also is the Marjorie Walter Goodhart Mediaeval Library, a collection of incunabula given by Howard L. Goodhart which numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for undergraduate students. Additional work space is available in the Reserve Book Room, the Reference Room, the Art Study and the carrels in the West Wing. Twelve seminar rooms are reserved for graduate students.

Haverford and Swarthmore Colleges and the libraries in Philadelphia are generous in making their resources available to

students. The Philadelphia Bibliographical Centre and Union Library Catalogue situated at the University of Pennsylvania enable the student to locate easily the material in approximately one hundred and seventy-five libraries in the Philadelphia metropolitan area.

Each of the science departments at Bryn Mawr has its own library, with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

ART AND ARCHAEOLOGY COLLECTIONS

A small but valuable group of original works of art, available for study, includes Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology houses the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various other gifts from friends of the College. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles and ceramics contains material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

LABORATORIES

The Department of Chemistry and Geology have their laboratories, libraries and classrooms in the Marion Edwards Park Hall. The Department of Biology is located in a new building adjoining Park Hall. This is the second of three buildings planned to provide in one unified group ample space and modern facilities for the natural sciences and mathematics. The third building, for the Physical Sciences and Mathematics, will be under construction in 1963.

Physics, Mathematics and Psychology now occupy Dalton Hall. Both Dalton and the Science Center have facilities for graduate as well as undergraduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed by faculty and graduate students in particu-

lar research projects. On occasion this equipment is made available to advanced undergraduates working on honors problems.

In the present Science Center there are new laboratories for the use of radioactive materials, a glass-blowing shop, and a laboratory for microphotography. In Dalton Hall there is a machine shop with an expert machinist in charge. There is also a student shop at the disposal of graduate students in Physics and seniors working on honors problems. In addition, there is a modest hot laboratory in which radioactive samples may be processed in connection with the programs of the various departments.

Each of the science departments has its own library including the appropriate scientific journals. The Geology Department also has over 25,000 maps on deposit from the United States Army Map Service. The Department's large collection of minerals has been greatly increased recently by the gift of the Mineral Collection of George Vaux, Junior.

LANGUAGE LABORATORY

The Modern Language Departments jointly maintain a Language Laboratory. Its library of tapes contains recordings from the various literatures as well as material especially prepared for language drills. The simple but versatile modern equipment offers opportunities to improve both the speaking and comprehension proficiency of the student of foreign languages.

Residence

HALLS OF RESIDENCE

There are on the campus eight halls of residence, which provide full living accommodations for fifty to eighty-five students each, and three smaller halls, of which two are used as language houses for upperclassmen. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E. Rhoads.

A new residence hall will be constructed in 1963 which will house 135 students. This additional residential space is much

needed. At the present time students, who apply for admission at a late date, may be placed in temporary quarters.

A resident warden is in charge of each hall; she is an instructor or a graduate student, who is also a member of the Dean's staff and, like the Dean, is interested in all aspects of the student's welfare and her progress in college.

Although the College offers a variety of living accommodations, most students have single rooms. Some suites and double rooms are available. For all the rooms the College provides the necessary furniture, but students are expected to supply their own rugs and curtains and any other accessories they may desire.

Each of the large halls is a complete residence unit, with its kitchen and dining room, except Pembroke East and West and Rhoads North and South, which have common kitchens and dining rooms for the two wings. There are both large and small public rooms in every hall, where students may entertain their guests and gather together for study or recreation.

The maintenance of each hall is under the direction of a Hall Manager who, under the supervision of the College Dietitian, is also responsible for the preparation and serving of the meals. It is not possible to arrange for the cooking or serving of special foods or diets in the halls of residence.

RULES FOR RESIDENCE

Residence in the college buildings is required of all undergraduates except those living with their families in Philadelphia or the vicinity. Because of the great demand for rooms married students, except in unusual cases, are not admitted to residence.

A student enrolled in the College who plans to be married must inform the Dean of her intentions well in advance of the date of her marriage and must make arrangements for living that meet with the Dean's approval. *Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in the College.*

The College maintains its halls of residence in order to provide simple, comfortable living for its students. It expects students to respect its property and the standards on which the halls are run. A printed statement of residence regulations is given each student for her guidance during the academic year. The College makes every effort to keep the residence charge low;

the present rates are possible only because the students have agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the halls are closed during the Christmas vacation. One hall is kept open during the spring vacation and here undergraduates may occupy rooms at a fixed rate per day.

NON-RESIDENT STUDENTS

Students who live with their families in Philadelphia and the vicinity have at their disposal a room in the Library where lockers are provided. Their college mail and notices about campus activities are sent there. Rooms in Goodhart Hall for teas and special occasions are also available on request. The warden of one of the halls of residence serves as warden to the non-residents.

When space permits, non-resident students may make arrangements with the Director of Residence to have meals in the residence halls. Meals are also served on campus at the College Inn.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. The non-resident Dispensary fee of \$15 entitles them to medical examination and consultation with the College Physician. For health fees, see page 40.

Non-Resident Enrolment Fee. A non-resident student who wishes to enroll for the following year must make a deposit of \$25 not later than June 1. This deposit will be credited against the tuition charge.

Fees

TUITION

THE tuition fee for all undergraduate students, resident and non-resident, is \$1250 a year.¹ The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is about \$2440 a year. The difference must be met from income on endowment and from private gifts. Contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

RESIDENCE

The charge for residence is \$1150, \$1250 or \$1350, according to the size and location of the student's room or rooms. The residence fees are payable as follows:

\$1150—payable \$575 in October, \$575 in February

\$1250—payable \$625 in October, \$625 in February

\$1350—payable \$675 in October, \$675 in February

Application for Residence. A student in residence, who wishes to apply for a room for the following year, must make an application for a room and accompany it with an application fee of \$10. This fee will be credited against the residence charge if the room assigned is occupied by the applicant; it will not be refunded in any circumstance. Each student enrolled for the following year must make an additional deposit of \$40 not later than June 1. This deposit will also be credited against the residence charge. It will be returned if the student withdraws from College before June 15; it will not be returned if she withdraws later than June 15.

New students applying for residence will be billed \$50 in the spring. This \$50 will be credited against the residence charge, but it will not be returned in case of withdrawal after June 15.

1. The College will be unable to support instruction on the fee of \$1250 after 1962-63. Because of increasing costs, fees for tuition will be increased for the year 1963-64 to \$1550.

New students assured admission under the Early Decision Plan will be asked to make a room deposit of \$200 by February 1.

An applicant who, after having reserved a room, fails to cancel her reservation by August 1 (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by August 1, the applicant is responsible for the residence charge (based upon the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of \$1150, subject to an allowance for the cost of food and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

Reduction of Charges for Absence from College. In case of illness or withdrawal from the College for a period of six consecutive weeks or longer there will be a reduction in the charge for residence (representing the reduced expense to the College for food), provided written notice is given to the Dean of the College at the time of withdrawal, or, in the case of illness at home, as soon as possible. Verbal notice to wardens or instructors is not sufficient to secure this reduction.

SUMMARY OF MAJOR EXPENSES

For resident students, tuition and residence: \$2400, \$2500, or \$2600 according to the type of accommodation.

For non-resident students, tuition: \$1250.

Minor Fees and Charges

Laboratory courses (or, in Geology, field work) for materials and apparatus:

One course of 2 hours or less a week	\$ 7.50	} a semester
One course of more than 2 hours a week	15.00	
Two courses of more than 2 hours a week	25.00	
Three courses of more than 2 hours a week	30.00	

Graduation fee (payable in the senior year) 20.00

Health Insurance (Students' Reimbursement Plan) 15.00 a year

Dispensary fee for non-resident students 15.00

Bills will be rendered by the Comptroller at the beginning of each semester. Students whose fees and charges are not paid before November 1 in the first semester and before March 1 in the second are not permitted to continue in residence or to attend their classes. The Education Plan is available for parents who prefer to pay fees in monthly instalments.

General Information

STUDENT ADVISING

THE Deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of the College advises the senior class. Two Assistant Deans are responsible for advising juniors, sophomores and freshmen and for the scholarship program. The warden, the college officer in charge of each residence hall, is a member of the Dean's staff and stands ready to assist students. The College Physician, the consulting psychiatrists, study counselors and vocational advisers are also available to all students. The deans and the wardens will always give students information about appointments with these specialists.

For freshmen, the College provides a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome them and are available to answer questions and give advice. The freshmen have interviews with the President or the Dean of the College and consult with the deans on registration of courses. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, activities are sponsored by the undergraduate organizations.

ACADEMIC STANDARDS AND REGULATIONS

Faculty rules governing academic work and the conduct of courses are stated in the "Academic Rules for Undergraduate Work." Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the Senate may set specific requirements to be met by the student

concerned and may also curtail privileges. In extreme cases the Senate may recommend exclusion from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the conduct of examinations, written quizzes, and other written work is given to all entering students, who must sign a statement that they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the faculty and the Dean of the College or the Assistant Dean.

ATTENDANCE AT CLASSES

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. In general no attendance records are kept, except where an instructor has requested that attendance be taken. Each instructor will make clear his view concerning absence from class.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructor about making up the work. In the case of a prolonged absence the Dean must be consulted as well as the instructor. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

EXCLUSION

The College reserves the right to exclude at any time a student whose conduct or academic work is unsatisfactory. In such cases the fees due or already paid to the College will be neither refunded nor remitted in whole or in part.

HEALTH

An extensive program, including periodic physical examinations and regular work during the first two years in the Department of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students

receive clinic and hospital care in the College Dispensary and Infirmary, where a College Physician is in daily attendance. The College maintains a modern 22-bed infirmary with a full staff of physicians and nurses. The Bryn Mawr Hospital and other excellent hospitals in nearby Philadelphia offer additional medical and surgical facilities.

The College physicians and psychiatrists may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is required. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July first. As part of this health report, certification of immunization against tetanus and diphtheria, vaccination against smallpox, a Mantoux test and ophthalmologist's certificate are required. If the Mantoux test is reported positive a chest X-ray is necessary. Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival and will be charged accordingly.

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement necessitates an examination by one of the College consultants, for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every undergraduate is examined in her freshman and senior years by the College Physician and in her freshman year by the Director of Physical Education as to physical development and general health. Students who have special health problems are examined more frequently. A student who at the time of an examination or at any other time during the year is not in good health is required to follow the special regime prescribed, and her extracurricular activities may be limited.

The residence fee paid by resident students entitles them to treatment in the College Dispensary and to care in the College Infirmary for seven days, not necessarily consecutive, during the year, to attendance by the College physicians during this time and to general nursing. In cases requiring a special nurse, the

expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is nine dollars. The Infirmary is open when college is in session and during spring vacation. It is closed during Christmas vacation.

Non-resident students must pay a fee of \$15, which entitles them to unlimited dispensary and laboratory service and free consultation with the College physicians and psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or to the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present a signed statement to the Infirmary from her physician when she returns.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Students' Reimbursement Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to resident students. The cost is \$15 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

THE EDUCATION PLAN

Since some parents prefer to pay tuition and other college fees in equal monthly instalments during the college year, the College offers this convenience under the Bryn Mawr Trust Company. The cost of a one- or two-year contract is four per cent greater than when payment is made in cash. The interest rate is slightly higher for three- or four-year contracts. All contracts include the benefit of parent life and total and permanent disability insurance.

INSURANCE

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually.

Curriculum

THE undergraduate curriculum is designed to achieve two main purposes: to give a broad and sound education in the liberal arts and sciences, and to provide adequate preparation for advanced study for those students who wish to enter graduate and professional schools.

In order to assure breadth in the curriculum the College has established the following requirements which must be met by all candidates for the A.B. degree regardless of their choice of major subject: (1) Freshman English composition, (2) History of Philosophic Thought, (3) one course in the natural sciences, (4) one course in literature and (5) one course in the social sciences or history. These requirements may be met by (a) completing successfully an appropriate course at Bryn Mawr, (b) presenting the appropriate Advanced Placement Test of the College Entrance Examination Board with an honor grade, or, (c) in exceptional circumstances, completing with a grade of at least C a summer school course approved in advance by the department concerned and by the Dean. Each student must also demonstrate a knowledge of two foreign languages. This may be done by (1) attaining a score of 590 on a College Board achievement test, taken in the senior year of high school, (2) passing examinations offered by the College every spring and fall, or, (3) passing with a grade of at least 70 a college course above the elementary level before the Senior year.

The major subject, chosen at the end of the sophomore year, is combined with work in allied subjects. The purpose of the major subject is to give each student the kind of training that continuity in the study of one field of knowledge provides. As she progresses toward more complex advanced work she acquires a deeper insight into the fundamental principles and general concepts of her subject. At Bryn Mawr the departments offering major courses of study are: Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, English, French, Geology, German, Greek, History, History of Art, Italian, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology,

Russian, Sociology and Anthropology, Spanish. The departments of Education and History of Religion offer elective work which may be allied with certain major subjects but no separate majors.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of a more advanced character than that done in the regular courses and requires more initiative and power of organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible a student must have completed two years of study in the major subject, and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

The plan for the curriculum determines the framework within which each student constructs her own program of courses.

The minimum of $15\frac{1}{2}$ units of work for the A.B. degree is distributed as follows: $4\text{--}5\frac{1}{2}$ units meet general college requirements, approximately 7 units constitute work in the major subject including allied work and the preparation for the Final Examination in the major subject, required of all students. The remaining units ($3\text{--}4\frac{1}{2}$) are for courses to be elected freely by the student. Each full year course is the equivalent of one unit of work and each course constitutes one quarter of a student's working time for one year. For the benefit of transfer students, one course is the equivalent of 8 semester hours. In most cases, Freshmen, Sophomores and Juniors take 4 units of work and Seniors $3\frac{1}{2}$, including the unit of preparation for the Final Examination in the major field. This preparation usually consists of independent reading and conferences with members of the major department designed to review and correlate the material covered in the major.

The plan for the curriculum may be outlined as follows:

I. A total of at least $15\frac{1}{2}$ units of work must be presented by all candidates for the A.B. degree. The total is made up of $14\frac{1}{2}$ units of course work and one unit of preparation for the Final Examination in the major subject.

II. Unless the student has been exempted by means of Advanced Placement, the $14\frac{1}{2}$ units of course work must include the following:

1. The course for Freshmen in English Composition. This course is supplemented by work in English Speech, consisting of individual conferences, which must be completed before the end of the Sophomore year.

2. A course in literature to be chosen from certain courses in English and Biblical Literature, Greek or Latin.

3. A course in one of the following sciences: Biology, Chemistry, Geology or Physics.

4. The course in History of Philosophic Thought.

5. A course in social science to be chosen from offerings in Economics, History, Political Science, Psychology or Sociology and Anthropology.

6. Although no specific course or courses are required, each student must demonstrate a knowledge of two foreign languages. (See page 41.)

Language examinations may be taken in any autumn or spring after entrance, up to the beginning of the senior year. A Senior who fails either examination or is conditioned in both in the autumn will not receive her degree the following June. If having passed one examination she is conditioned in the other, she may take a second examination in January.

III. The total number of at least $15\frac{1}{2}$ units of work must include a major subject chosen at the end of the sophomore year. The major subject must consist of:

1. Six units of work to be distributed as follows:

- a. At least three and usually four courses in the major field. Of these one or two must be second-year courses, and one must be advanced.

- b. The remaining courses to be chosen among the courses listed by the major departments as acceptable for allied work.

2. One unit of preparation for the Final Examination in the major subject. All students who receive the degree must have passed this examination.

IV. Elective work. The remaining units of work making up the required total of $15\frac{1}{2}$ are devoted to elective courses. Students may choose freely any courses which do not have prerequisites or any courses whose prerequisites they can meet.

V. Grades. Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in her major subject, she may be required to change her major.

VI. The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude*, *magna cum laude*, and *summa cum laude* to students whose numerical average in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

VII. Credit for work taken elsewhere:

1. Transfer credit (see page 29)
2. Cooperation with Neighboring Institutions

Under the Three-College Plan for Cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registrations must be approved by the Dean and the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so. Students who wish to present summer school work for credit should first obtain approval of their plan from the Dean and from the department concerned. No credit will ever be given for work in which a student has received a grade below C. Credit given will be calculated on an hour-for-hour basis.

VIII. Supplementary requirements for the Degree:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

a. All students must fulfill the requirement in English Speech. This consists of an interview-test during the freshman year, to be followed by remedial work (in conference, without credit), ordinarily throughout the first semester, for those needing it.

b. Hygiene

All students must meet the requirements in Hygiene by passing an examination based on reading assigned by the College Physician and the Consulting Psychiatrists and given annually. The examination must be taken no later than the autumn of the junior year.

c. Physical Education

All students must meet the requirement in Physical Education, consisting of work taken throughout the freshman and sophomore years (see page 116).

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

PREMEDICAL PREPARATION

Bryn Mawr, through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enter these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools also stipulate Chemistry 201a, and reading facility in French and German.

The requirements are fulfilled by a major in Biology, with the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met

by a major in other subjects, such as literature or history, with careful planning of the student's courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student's choice as preparation for its courses of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on admission to medical school and are awarded at the end of the senior year for use during the first year of medical study, with the prospect of renewal for later years if the student's need and her record in medical school warrant it.

COORDINATION IN THE SCIENCES

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a Plan for Coordination in the Sciences. Under the plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects, such as biophysics, geochemistry, or psychophysics. The program necessarily demands a thorough grasp of the fundamentals of at least two sciences, and usually also of mathematics. This training may be obtained in the first three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through the grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these relatively new and extremely fruitful areas of scientific investigation. The chairmen of the departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their courses of study. Such students should consult with the chairmen of the departments in which their special interests lie as early as it is possible to do so.

INTERDEPARTMENTAL COURSES

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among

them. Such courses are taught by two or more members of the faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide an opportunity to apply their training to new and broader problems and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

LANGUAGE HOUSES

Two small residence halls serve as language houses for upperclassmen who wish to speak French or Spanish. Upperclassmen who wish to live in a language house should apply to the heads of the Departments of French or Spanish. Adequate preparation in the language is a prerequisite and those who are accepted agree not to speak English at any time. Residence in a language house provides an excellent opportunity to gain fluency in speaking a foreign language and is highly advisable for students planning to spend the junior year abroad.

INSTITUT D'ÉTUDES FRANÇAISES D'AVIGNON

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture. The program is open also to undergraduate men and women from other colleges. The *Institut* director and faculty members are French professors teaching in colleges and universities in the United States and France. Classes are held in the Palais du Roure and the facilities of the Bibliothèque Calvet are available to the group. Students live with families in Avignon. Applicants for admission must have strong academic records and have completed a course in French at the third-year college level or the equivalent. For detailed information concerning admission, curriculum, fees, academic credit and scholarships, students should consult Dr. Michel Guggenheim of the Department of French.

THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to the various groups spending the junior year in Europe. Bryn Mawr students may study in Paris under one of the junior year plans sponsored by Sweet Briar College or Smith College; in Geneva, Florence, Hamburg, or Madrid with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country where they plan to study. In general, two years of study at the college level are necessary to provide adequate language preparation. The junior year groups are not limited to language majors; they often include majors in, for example, History of Art, History or the social sciences. All students who plan to study abroad should consult the chairmen of their major departments to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

SCHOLARSHIPS AND OTHER STUDENT AID

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College over many years have built up endowment for scholarships. Annual gifts from alumnae and alumnae clubs and from industrial and professional groups add to the amounts available each year. It is now possible to provide at least partial scholarships for one quarter to one third of the undergraduate students in the College. Full information about the scholarships available and other forms of help for meeting the expenses of college education will be found in the section, Financial Aid.

Courses of Study

1962-1963

Key to Course Numbers and Symbols

- 1, 2, 3indicate elementary and intermediate courses.
With the exception of Greek 1 and Russian
1 these courses are not part of the major
work.
- 101, 102, etc.indicate first-year courses in the major work.
- 201, 202, etc.indicate second-year courses in the major
work.
- 301, 302, etc.indicate advanced courses in the major work.
- *indicates elective courses, open to all students
without prerequisite unless a specific pre-
requisite is stated.
- athe letter "a," following a number, indicates
a half-course given in the first semester.
- bthe letter "b," following a number, indicates
a half-course given in the second semester.
- cthe letter "c," following a number, indicates
a half-course given two hours a week
throughout the year.
- []Square brackets enclosing the titles of courses
indicate that these courses, though regular
parts of the program, are not given in the
current year.

In general, courses which are listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours, or eleven quarter hours.

Biology

PROFESSORS:	MARY S. GARDINER, PH.D., Chairman
	L. JOE BERRY, PH.D.
	JANE M. OPPENHEIMER, PH.D.
DEAN OF THE GRADUATE SCHOOL AND PROFESSOR:	ELEANOR A. BLISS, SC.D.
ASSOCIATE PROFESSOR:	ROBERT L. CONNER, PH.D.
LECTURER:	SARAH FLEMISTER, PH.D.
ASSISTANTS:	STILES DEAN EZELL, JR., A.B.
	MARY ANN FRITZ, M.S.
	JANE R. MCCONNELL, PH.D.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in man's understanding of the world in which he lives and his own position in it. Primary consideration is devoted to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments. In the laboratory the student learns by dissection and microscopic study the gross and detailed anatomy of representative animals and plants, and by experimentation the functional relationships within them and their operation under natural and controlled experimental conditions.

REQUIREMENTS IN THE MAJOR SUBJECT: Biology 101, 201, 202 and 203; at least one advanced course and, as allied work, Chemistry 101 and 202. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work and are required for admission to some medical schools. Interdepartmental 203: *The Development of Scientific Thought* will also be accepted as allied work. The Biology Department has no special language requirements, but students should note that the ability to read French and German is essential for those expecting to do graduate work and is required for admission to some medical schools.

ALLIED SUBJECTS: Chemistry, Physics. Other subjects may be included, with the approval of the Department.

101. *General Biology*: Mr. Berry, Mr. Conner, Miss Oppenheimer, Miss Gardiner. Laboratory: Mrs. Flemister and assistants.

A presentation of the fundamental principles of development, structure and function in organisms. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory four hours per week.

201. *The Biology and Physiology of Vertebrates*: Miss Oppenheimer, Mr. Berry.

A study, supplementing that of the first-year course, of the anatomy of representative vertebrates, their physiology and natural history. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

202. *Invertebrate Biology and Cellular Physiology*: Miss Gardiner, Mr. Conner.

A survey of the anatomy and natural history of the invertebrates and a study of the functional problems met by living systems and of the mechanisms by which these are solved. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101, Chemistry 101, Biology 201, Chemistry 202 (may be taken concurrently).

203. *Introduction to Genetics*: Miss Gardiner.

A survey of the development of modern genetic theories. Lectures two hours per week in one semester only. Open to students who have completed Biology 101.

- [301. *Theories of Inheritance*: Miss Gardiner.]

A study of the various theories of inheritance leading to modern concepts of heredity in organisms. This may be taken concurrently with Biology 202. Lectures two hours, laboratory six hours (minimum) per week.

302. *Developmental Physiology*: Miss Oppenheimer.

Discussion of factors controlling growth and differentiation in vertebrates and invertebrates. Lectures two hours, laboratory

six hours (minimum) per week. This may be taken concurrently with Biology 202.

303. *Physiology of Micro-organisms*: Mr. Berry.

An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and other interactions between organisms. Major emphasis is given to bacteria and bacteriological techniques. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Biology 202, Chemistry 202.

[305. *Biochemistry*: Mr. Conner.]

The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Chemistry 202, Biology 202; except by permission of the Department. Physics 101 is recommended.

FINAL EXAMINATION: The final examination consists of two four-hour examinations covering the areas of study of the four years of undergraduate work, and the material of the reading assigned in preparation for it. Both these examinations are required of all students majoring in Biology.

HONORS WORK: Honors work in any of the advanced fields is offered to qualified students.

Chemistry

PROFESSOR:	ERNST BERLINER, PH.D. <i>Chairman</i>
ASSOCIATE PROFESSOR:	GEORGE L. ZIMMERMAN, PH.D.
ASSISTANT PROFESSORS:	FRANK B. MALLORY, PH.D. JOSEPH VARIMBI, PH.D.
LECTURER:	FRANCES BONDHUS BERLINER, PH.D.
VISITING LECTURER:	JOHN P. CHESICK, PH.D.
INSTRUCTOR:	UN-JIN P. ZIMMERMAN, PH.D.
ASSISTANTS:	DAVID W. NEWMAN, M.A. CLELIA S. WOOD, M.A.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inor-

ganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

REQUIREMENTS IN THE MAJOR SUBJECT: Chemistry 101, all 200 courses and one and one-half units of advanced work (exclusive of Chemistry 304a.) Physics 101, Mathematics 101 and a reading knowledge of German are also required. Students are urged to take also Mathematics 201.

ALLIED SUBJECTS: Biology, Geology, Mathematics, Physics.

101a. *General Chemistry*: Mr. Mallory, Mrs. Berliner and assistants.

An introduction to the theories of chemistry and the study of the non-metals. No knowledge of chemistry is presupposed. Three lectures, three hours laboratory a week.

101b. *Qualitative Analysis and the Chemistry of the Metals*: Mr. Berliner, Mrs. Berliner and assistants.

Systematic qualitative analysis of inorganic substances and the theories on which it is based. A study of the metallic elements. Three lectures, three hours laboratory a week.

[102. *Introductory Chemistry and Physics*.]

See Interdepartmental Course 102, page 114.

201a. *Quantitative Analysis*: Mr. Varimbi.

Theories and practice of the quantitative determination and separation of inorganic substances. Two lectures, eight hours laboratory a week.

202. *Organic Chemistry*: Mr. Berliner, Mr. Mallory.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry*: Mr. Zimmerman.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures and one

conference, five hours laboratory a week. Prerequisites: Mathematics 101, Physics 101 and Chemistry 201a. (The latter two may be taken concurrently.)

301b. *Inorganic Chemistry*: Mr. Varimbi.

A systematic study of the descriptive and theoretical chemistry of the elements and their compounds based on the Periodic Table. Two lectures, six hours laboratory a week.

302 (a and b). *Advanced Organic Chemistry*: Mr. Mallory, Mr. Berliner.

Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and laboratory techniques. Two lectures, six hours laboratory a week. The first semester may be taken without the second ($\frac{1}{2}$ unit).

303a. *Chemical Thermodynamics*: Mr. Zimmerman.

Two lectures and one conference a week. Laboratory in the second semester only: six hours a week.

303b. *Quantum Mechanics of Atoms and Molecules*: Mr. Zimmerman, Mrs. Zimmerman.

Two lectures and one conference a week. Prerequisite: Chemistry 304a.

304a. *Applied Mathematics for Chemists*: Mrs. Zimmerman, Mr. Zimmerman.

Two lectures and one conference a week. Prerequisite: Mathematics 201, or the equivalent.

FINAL EXAMINATION: The examination consists of three parts:

- a. Analytical and Inorganic Chemistry, b. Organic Chemistry, c. Physical Chemistry. Each candidate must elect to answer two of the three parts at an advanced level.

For one of the subjects above, an examination in an allied subject, covering at least two years of work, may be offered. In that case the student need take only one unit of advanced work.

HONORS WORK: Honors work may be taken by qualified students in conjunction with any of the advanced courses or after their completion.

Classical and Near Eastern Archaeology

ASSOCIATE PROFESSOR:	MACHTELD JOHANNA MELLINK, PH.D. <i>Chairman</i>
ASSISTANT PROFESSORS:	KYLE M. PHILLIPS, JR., PH.D. BRUNILDE SISMONDO RIDGWAY, PH.D.
ASSISTANT:	THERESA H. CARTER, PH.D.
ELLA RIEGEL	
MUSEUM ASSISTANT:	ANN HARNWELL ASHMEAD, PH.D.

PROFESSOR OF	
ANTHROPOLOGY:	FREDERICA DE LAGUNA, PH.D. ¹

The major courses provide an extensive survey of the ancient Mediterranean civilizations, with emphasis on the Greek arts of sculpture, architecture and vase-painting.

Lectures are illustrated by lantern slides; and for most courses photographs are available for study and review. A term paper or report is normally required.

REQUIREMENTS IN THE MAJOR SUBJECT: Classical Archaeology 101, 201, 203 and 301.

ALLIED SUBJECTS: Ancient History, Anthropology, Greek, History of Art, Latin.

101. *An Introduction to Ancient Art*: Mrs. Ridgway, Mr. Phillips.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage and tracing its importance first to Aegean art and then to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediter-

1. On sabbatical leave for the year 1962-63.

raean world are studied down to the end of the Roman Empire in the West, ca. A.D. 476.

A fourth hour weekly is devoted to informal discussion.

201a. *Egyptian and Mesopotamian Archaeology*: Miss Mellink.

An introduction to the cultures of the ancient Near East, stressing their origins and the rise of local traditions.

201b. *Aegean Archaeology*: Miss Mellink.

The pre-Greek cultures of the Aegean area; Minoan Crete and its relations; the encounter of pre-Greeks and Hellenes; the first consolidation and expansion of Greek culture in the Mycenaean age.

[202a. *Ancient Greek Cities and Sanctuaries*.]

A course considering in a comprehensive way the ancient form and general cultural importance of such sites as Athens, Delphi and Olympia, with emphasis on history, religion and mythology connected with each center.

[202b.* *Cultural History of Archaeology*: Miss Mellink.]

The development of archaeology through the ages: antiquarian interests, early excavations and travels, the position and future of archaeology as a modern discipline.

203a. *Greek Sculpture*: Mrs. Ridgway.

The development of Greek sculpture from its beginnings to Roman times. The term paper deals with some piece of sculpture selected by the student.

203b. *Later Greek and Roman Sculpture*: Mr. Phillips.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. The term paper deals with individual monuments or groups of sculpture selected by the student.

[204. *American Archaeology*: Miss de Laguna (See Anthropology 204).]

301a. *Ancient Painting*: Mr. Phillips.

The development of Greek vase-painting as an original form of art, its relation to monumental painting, and its place in Greek archaeological research.

301b. *Ancient Architecture*: Mrs. Ridgway.

The ancient architectural tradition in its historical context, with study of the Greek temple as its dominant achievement.

[302a. *The Greek Style in Art*: Miss Mellink.]

An analysis of the originality and consistency of style in the various fields of Greek art. The course will be conducted as a discussion group with reports and a term paper. Prerequisites: Classical and Near Eastern Archaeology 101, 201, 203, 301.

303. *Anatolian and Syrian Archaeology*: Miss Mellink.

A comprehensive course on Near Eastern archaeology with special emphasis on the peripheral and intermediate areas and their connections with the Aegean. Prerequisites: Archaeology 101, 201, 203, 301. The course is meant for seniors and is taught in the form of a seminar with papers and reports.

FINAL EXAMINATION: Three examinations on any three of the fields covered by the undergraduate lecture courses, but with questions of broader scope involving more extensive knowledge. During their senior year majors attend weekly one-hour conferences in each of their selected fields. If a student wishes, she may write one of the three examinations in an allied field.

HONORS WORK: A long written paper is submitted on a topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whom the paper is prepared.

Economics

PROFESSORS:

MILDRED BENEDICT NORTHROP, PH.D.
Chairman

JOSHUA C. HUBBARD, PH.D.

ASSOCIATE PROFESSOR:

MORTON S. BARATZ, PH.D.

ASSISTANT:

JEANETTE STOOPS, M.S.

This major is designed (1) to provide the student with an understanding of the institutions and processes of the economic

world in which we live, (2) to train her in the methods by which these institutions and processes may be analyzed, and (3) to enable her to evaluate the role played by economic forces in the political and social issues of the day.

REQUIREMENTS IN THE MAJOR SUBJECT: Economics 101, two units elected from 201, 202 and 203, and a full unit of advanced work. Students are urged to take Mathematics 203 which will count as part of their allied work.

ALLIED SUBJECTS: Political Science, History, Philosophy, Psychology, Mathematics, Sociology and Anthropology, Modern Languages.

101. *Introduction to Economics*: Miss Northrop, Mr. Hubbard, Mr. Baratz.

This course analyzes the major problems involved in the allocation of resources, the distribution of income, the maintenance of economic stability, the provision of social security and international economic relationships.

201a. *Industrial Structure and Market Behavior*: Mr. Baratz.

Theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive economy; legal restrictions on business policy; social and political implications of public regulation of private enterprises.

201b. *International Economics*: Miss Northrop.

A study of international trade and international finance in theory and practice; the foreign economic policy of the United States; international economic organization; the impact of industrialism on underdeveloped nations.

202a. *Money and Banking*: Mr. Hubbard.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy.

202b. *Public Finance and Fiscal Policy*: Mr. Baratz.

A study of local, State and Federal revenues and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full employment economy.

[203a.* *The Labor Movement*.]

Economic and political causes of the development of the

labor movement in the United States and Europe; the role of government in a competitive economy.

[203b.* *Employer-Labor Relations*.]

The nature of the collective bargaining contract; wage determination in theory and practice; causes of labor disputes and methods of settlement.

41a. (Haverford College) *Labor Economics and Labor Relations*: Mr. Teaf.

[301a. *History of Economic Thought*: Miss Northrop.]

An analysis of economic thought in the 18th and 19th centuries as it developed against the background of social and political change. Readings, among others, in the works of Smith, Malthus, Ricardo, Mill, Marx, Jevons and Marshall.

301b. *Contemporary Economic Thought*: Mr. Hubbard.

An analysis of economic thought in the 20th century. The national income, economic growth, fluctuations in economic activity, the determinants in the level of income and employment.

302a. *Comparative Economic Systems*: Miss Northrop.

A study of the major forms of economic organization with particular emphasis on those existing today.

304a. *Aspects of Latin American Politics and Economics*: Mrs. Marshall and Mr. Baratz.

FINAL EXAMINATION: The final examination for students majoring in Economics is in three parts:

1. An examination in general economic principles and problems.
2. An examination in Economic Theory.
3. An examination in one of the following:
 - a. Money and Banking, including Fiscal Policy
 - b. Industrial Structure and Market Behavior
 - c. International Economics
 - d. The Business Cycle and Full Employment
 - e. Labor Economics including Wages and Wage Theory

With the permission of the major and allied departments, one examination may deal with an allied subject.

HONORS WORK: One unit of Honors work may be taken by students recommended by the Department.

Education

PRESIDENT**OF THE COLLEGE:****KATHARINE ELIZABETH McBRIDE,**
PH.D., LL.D., L.H.D., Sc.D.**PROFESSOR AND DIRECTOR,****CHILD STUDY INSTITUTE:****RACHEL DUNAWAY COX, PH.D.,**
*Chairman***ASSISTANT PROFESSOR:****ETHEL W. MAW, PH.D.****LECTURER AND DIRECTOR,****THORNE SCHOOL:****SUSAN E. MAXFIELD, M.S.****LECTURER:****MILTON BRUTTEN, PH.D.****ASSISTANT:****LELIA BRODERSEN, M.A.**

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Although there is no major in Education, a sequence of courses in the Department enables the student to prepare for teaching. Students expecting to teach are urged to confer with the Department during the Freshman year. Work leading to the certificate to teach in the secondary school in most states can be taken concurrently with a liberal arts major if the student very early maps out her course of study. The suggested sequence includes, in the order named, General Psychology, Principles of Teaching, Educational Psychology, Child Psychology or History and Philosophy of Education, and Principles of Teaching in the Secondary School. The last named course includes twelve hours per week of supervised practice teaching for one semester in nearby schools.

The certificate to teach in the elementary school requires some substitutions in the list above plus additional requirements which differ from state to state. The basic work offered by this Department must be supplemented by courses taken elsewhere.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children as part

of the course work. The pre-school program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a clinic supported jointly by the College and the Lower Merion Township Schools for work in Child Development. Problems of learning and behavior are studied; psychological testing and remedial teaching are carried on. A program of counseling for children and their parents renders help in school and family adjustment. Advanced students participate in the work, and undergraduate and graduate students observe in the schools.

Referrals also come to the Institute from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and from social agencies, giving the students the opportunity for acquaintance with a diversity of clinical material. Rooms are equipped for the individual examination of pupils, remedial teaching, play therapy and student observation. Sound recording facilities are available for the study and improvement of counseling and testing techniques.

[101b. *Principles of Teaching*: Miss McBride.]

102b. *History of Education*: Mrs. Maw.

[201a. *Educational Psychology*: Mrs. Cox.]

Principles of Psychology applied to teaching and learning. Problems of motivation, evaluation and adjustment. Group process and learning. Two hours laboratory per week.

202a. *Child Psychology*: Mrs. Cox.

The development of the child from infancy to maturity. Physical, intellectual and emotional growth and learning in the family and the school. Two hours laboratory per week in the Thorne School. Prerequisite: Psychology 101a.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

The objectives, curriculum and organization of the secondary school. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours practice-teaching in the junior or senior high school.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

The objectives and curriculum of the elementary school. The nature of the learner and the learning process during the early school years. Two-hour seminar per week; 12 hours practice-teaching in the elementary school.

English

PROFESSORS:	K. LAURENCE STAPLETON, A.B., <i>Chairman</i> ARTHUR COLBY SPRAGUE, PH.D. MARY KATHARINE WOODWORTH, PH.D.
ASSOCIATE PROFESSORS:	WARNER B. BERTHOFF, PH.D. ¹ ISABEL GAMBLE MACCAFFREY, PH.D.
ASSISTANT PROFESSORS:	ROBERT HAWES BUTMAN, M.A. ROBERT B. BURLIN, PH.D. JAMES H. BRODERICK, PH.D.
LECTURERS:	HENNIG COHEN, PH.D. ROBERT A. CORRIGAN, M.A.
INSTRUCTORS:	SANDRA M. BERWIND, M.A. RAMONA T. LIVINGSTON, A.B. DORIS QUINN, M.A. PETER J. LEACH, M.F.A. ELEANOR WINSOR, M.A.

To the student planning to major in English the Department offers courses covering all periods of English literature. The student selects her fields within this broad range and devotes special attention to one period or literary genre.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in English must take English 101 unless they have the recommendation of the Department to enter a second-year course. They must complete four second-year and advanced courses in English literature, of which at least one should be an advanced course. Students who wish to specialize in the field of Old and Middle English must take some courses in later periods, and those specializing in modern literature must take English 201 or, in exceptional cases, certain other courses approved by the Department. Credit will not be given for a single semester's work in full-year courses unless the Dean of the College recommends, and the Department approves, that an exception be made.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, History of Religion, Music, Philosophy, certain

1. On leave of absence and sabbatical leave for the year 1962-63.

courses in Classical Archaeology, Political Science 201(a) and 302(b), and Interdepartmental 203 (The Development of Scientific Thought). Students are advised to devote one unit of allied work to a course in Greek or Latin or Greek Literature in Translation. Any second-year or advanced writing course may be substituted for one unit of allied work.

WRITING, LANGUAGE, AND SPEECH

15. *English Composition and Reading*: Mrs. MacCaffrey, Mr. Burlin, Mr. Broderick, Mrs. Livingston, Mrs. Berwind, Mrs. Quinn, Miss Winsor, Mr. Corrigan, Mr. Leach.

Practice in writing based upon the study of selected authors, with emphasis upon ideas and the problems of the writer in his time. The student will read fiction, poetry, and critical and argumentative prose in one of the following fields: (a) Literature of the twentieth century; (b) American Literature, 1840 to the present; (c) English Literature of the Renaissance. There will be weekly papers and discussions, and regular conferences with each student.

In 209, 215a and 306 weekly papers are usually required. Students who cannot meet this requirement should not elect any of these courses.

- 209.* *Experimental Writing*: Mr. Leach.

Practice in various forms of writing, fiction and non-fiction. Attention is paid to the needs and interests of each student. Prerequisite: English 15 at Bryn Mawr or the written permission of the instructor.

- 210a.* *Playwriting and Production*: Mr. Butman.

Writing of two original one-act plays.

- 210b.* *Advanced Playwriting and Production*: Mr. Butman.

Writing of a full-length play and preparation of its production-book. Prerequisite: approval of the instructor.

- 211.* *Verse Composition*: Miss Stapleton.

Original verse composition, with a study of the principles of form.

215a.* *Prose Writing*: Mr. Leach.

Practice in various forms, excluding fiction and with emphasis on exposition and description. Prerequisite: English 15 at Bryn Mawr or the written permission of the instructor.

[306* and 306c.* *Advanced Writing*.]

Practice in various forms of writing with the emphasis on technical problems. Prerequisite: English 209.

LITERATURE

101. *Introduction to English Literature*: Mrs. MacCaffrey, Miss Winsor.

A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.

201. *Chaucer*: Mr. Burlin.

The emphasis is upon Chaucer and his contemporaries. Sufficient instruction is given in Middle English to enable the student to read ordinary texts.

202. *Shakespeare*: Mr. Sprague.

In the first semester all the plays are read, and in the second semester two or three are studied in detail.

[203. *The Romantic Period*: Mr. Broderick.]

English Literature from 1789 to 1832. Attention is centered upon the poets.

204. *The Victorian Period*: Mr. Broderick.

Attention is centered upon the poets.

[205. *Representative English Novelists*.]

A study of the development of English fiction, and of the novel as a literary form, through the works of selected novelists in the eighteenth and nineteenth centuries. Prerequisite: the reading of two novels by each of the following: Charlotte Brontë, Dickens, Thackeray, George Eliot, Meredith.

[206a. *English Drama from the Restoration to Robertson*: Mr. Sprague.][206b. *Modern English Drama*: Mr. Sprague.]

The drama from 1865 to the present day.

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

The modern movement, its experiments and tendencies, with concentrated study of major writers, Yeats, Joyce, Eliot and others.

208. *American Literature*: Mr. Corrigan.

From the beginnings to the present day.

- [212b. *Blake*: Miss Woodworth.]

A study of the poetry, prose, paintings and engravings of Blake, with emphasis on intellectual history and the development of art in the period.

- [214a.* *English Prose of the Sixteenth Century*.]

The main intellectual currents of the period are studied, with reading in the major prose writers.

301. *Old English Literature*: Mr. Burlin.

By special permission of the instructor, students may be permitted to elect a supervised unit of work in which, after some training in old English grammar, selected texts are read.

- 302a. *The Drama from the Beginnings to 1642*: Mr. Sprague.

A rapid survey of earlier periods is followed by closer study of Elizabethan and Jacobean drama, excluding Shakespeare.

- [303b. *English Poetry from Spenser to Donne*: Mr. Sprague.]

The principal poets studied are Spenser, Sidney, Shakespeare (the narrative poems and the sonnets), and Donne.

304. *The Seventeenth Century*: Mrs. MacCaffrey.

Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About a third of the time is devoted to Milton, and special attention is given to the thought of the period.

305. *The Eighteenth Century*: Miss Woodworth.

The age of Pope and Swift; the rise of the novel; Dr. Johnson and his circle.

FINAL EXAMINATION: The final examination is in three parts:

1. Literary criticism, literary genres, and problems of style.
Based upon the reading of certain critical works of funda-

mental importance. Each student is expected to draw illustrative material from the fields in which she has elected to work.

2. An examination in one of the following periods. The student must choose a period other than that which embraces her special field.
 - a. The Middle Ages (to 1500)
 - b. The Renaissance (1500-1660)
 - c. Neo-Classicism and Romanticism (1660-1832)
 - d. The Nineteenth and Twentieth Centuries (English or English and American)
3. An examination in one of the following fields of concentration: Old English; Middle English; The Drama to 1642; Elizabethan Literature, non-dramatic; The Seventeenth Century; The Eighteenth Century; Romanticism; Victorian Literature; The Novel; The Drama from 1660 to the Present Time; English and American Literature, 1890-1939; American Literature.

With the consent of the Department an examination in an allied subject may be substituted for the examination in the special field.

HONORS WORK: In the senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability.

French

ASSOCIATE PROFESSORS:	MARIO MAURIN, PH.D., <i>Chairman</i> MICHEL GUGGENHEIM, PH.D.
VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSISTANT PROFESSOR:	BERNARD TOSCANI, PH.D.
LECTURER:	M. PAULINE JONES, M.A.
INSTRUCTOR:	SUSAN WALSH, A.B.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Two second-year courses treat French literature from the beginning to the present day. In the advanced courses a more detailed study of certain authors, genres and movements is made. One second-year course is devoted to in-

creasing the students' competence in spoken and written French. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In French 1, 2, and 203c, the use of the Laboratory forms an integral part of the course. This work should be supplemented by spending the Junior year in France or attending a course of summer study in France or French-speaking surroundings. Students who wish to improve their ability to speak French are urged to live at the French house for at least one year.

REQUIREMENTS IN THE MAJOR SUBJECT: French 101, 201, 202 and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, be admitted to French 201, and substitute an advanced course for French 101.

ALLIED SUBJECTS: Any other language or literature, European History, History of Art, Music, Philosophy.

1. *Elementary French:* Miss Jones, Miss Walsh.

The speaking and understanding of French are emphasized, particularly during the first semester. The course, which meets five times a week, is the equivalent of two years of French in most courses in school.

2. *Intermediate French:* Members of the Department.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

101. *Readings in French Literature with Practical Exercises in the French Language:* Members of the Department.

The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

201. *French Literature from the Chanson de Roland to 1800:* Mr. Guggenheim, Mr. Maurin, Miss Jones, Miss Walsh.

202. *French Literature from 1800 to 1950:* Mr. Guggenheim, Mr. Maurin.

203c. *Advanced Training in the French Language:* Mr. Guggenheim, Miss Jones.

[301. *French Lyric Poetry:* Mr. Maurin, Miss Walsh.]

In the first semester special attention is given to the poetry

of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.

302. *French Drama*: Mr. Maurin, Mr. Guggenheim.

Special study is made of the drama of the seventeenth and twentieth centuries.

303. *The French Novel from 1700 to 1950*: Miss Walsh, Mr. Maurin.

[304. *French Essayists and Moralists*: Mr. Guggenheim, Mr. Maurin.]

Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus and Sartre.

JUNIOR YEAR ABROAD: Students majoring in French may, by a joint recommendation of the Dean of the College and the Department of French, be allowed to spend their Junior year in Paris under one of the junior year plans, organized by Sweet Briar College or Smith College.

SUMMER STUDY: Students wishing to enroll in a summer program may apply for admission to the *Institut d'Études Françaises d'Avignon*, which is held under the auspices of Bryn Mawr College. The *Institut* is designed for selected men and women undergraduates with a serious interest in French culture, most particularly for those who anticipate professional careers requiring a knowledge of the language and civilization of France. The curriculum includes general and advanced courses in French language, literature, history and art. The program is open to students of high academic achievement who have completed a course in French at the third-year college level, or the equivalent.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination to test the student's command of the French language.
2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.

Geology

PROFESSORS:	EDWARD H. WATSON, PH.D., <i>Chairman</i> LINCOLN DRYDEN, PH.D. DOROTHY WYCKOFF, PH.D. ¹
ASSISTANT PROFESSOR:	JEROME REGNIER, PH.D.
ASSISTANTS:	BEVERLY ANN MARSTERS, A.B. RICHARD STANDISH GOOD, M.S.

The Department seeks to make students more aware of the physical, natural world around them; to teach them how the present landscapes have been formed, and how modern plants and animals have evolved from earlier kinds. Physical processes like erosion, volcanic activity, and earthquakes form one large part of the subject; the history of the earth and the organisms which have peopled it form another. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies beyond the classroom, in field work.

REQUIREMENTS IN THE MAJOR SUBJECT: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses is normally required: Biology, Chemistry, or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department.

ALLIED SUBJECTS: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. *Physical Geology*: Mr. Watson, Mr. Regnier, Miss Marsters.

A study of the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes, and of the structures to which they give rise. Three lectures, four hours of laboratory or field work a week.

101b. *Historical Geology*: Mr. Dryden, Mr. Regnier, Miss Marsters.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, one afternoon of laboratory or field work a week. A three-day field trip is taken in the spring.

1. On sabbatical leave for the year 1962-63.

[201. *Mineralogy*: Mr. Watson.]

Crystallography, elementary crystal optics, descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours of laboratory work a week.

202. *Paleontology*: Mr. Dryden.

A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution.

301. *Structural and Field Geology*: Mr. Watson.

The origin and analysis of the structures of igneous, sedimentary and metamorphic rocks, and geological surveying. Three lectures, six hours of laboratory or field work a week.

[302. *Stratigraphy*: Mr. Dryden.]

The origin and formation of sedimentary rocks; geologic history of typical regions of the United States; elements of petroleum geology; and study of the Ice Age.

303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Mr. Watson, Mr. Regnier.

The optical properties of minerals and the use of the petrographic microscope. Discussion of the origin and differentiation of igneous rocks. Two lectures, about twelve hours of laboratory a week. Credit: 1½ units.

[305. *Geography*: Miss Wyckoff.]

Discussion of geographic factors such as climate, soils, vegetation, land forms and mineral resources. General principles of economic and political geography. Three lectures, one afternoon of laboratory a week.

[306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the faculty.]

(See Interdepartmental Course 203, page 115.)

FINAL EXAMINATION: This is in three parts:

1. An examination in General Geology.
2. An examination in some special field in Geology.
3. One of the following:
 - a. An additional special examination in Geology
 - b. A general examination in an allied field
 - c. A written report on a piece of individual work

HONORS WORK: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

Certain graduate courses are open to properly trained undergraduates.

German

ASSOCIATE PROFESSOR:	CHRISTOPH E. SCHWEITZER, PH.D., <i>Chairman</i>
ASSISTANT PROFESSORS:	MARTHA M. DIEZ, M.A. HUGO SCHMIDT, PH.D. WILLIAM Z. SHETTER, PH.D.
INSTRUCTOR:	KATRIN T. BEAN, M.A.

The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 1 are therefore given in German and progressive linguistic training is provided. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In German 1 and 102a the use of the Laboratory forms an integral part of the course. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in the Middlebury Summer School or in one of the summer schools of Germany, Austria or Switzerland; and/or by spending the Junior year in Germany.

REQUIREMENTS IN THE MAJOR SUBJECT: The normal course sequence for the major is German 101, 102c, 202, and at least one advanced course. Special consideration will be given to students who have supplemented their linguistic training as outlined.

ALLIED SUBJECTS: Any language or literature, History, Political Science, Philosophy, Music, History of Art.

1. *Elementary German* (Speaking and Reading): Members of the Department.

The course, meeting five times a week, offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

101. *Readings in German Literature*: Mr. Schmidt.

Introduction to the main periods of German literature. Interpretation of texts from the early period to the present.

102c. *German Conversation and Composition*: Mrs. Bean.

Active use of the language in speaking and writing; discussion of topics; compositions; reports.

202a and b. *The Age of Goethe*: Mr. Schweitzer.

German literary movements in the period 1750-1830, with emphasis on the works of Lessing, Goethe, Schiller, and the Romantics.

[301. *Introduction to Germanic Philology*.]

Brief introduction to the linguistic method. History of the language situation in the German-speaking world from the earliest records until the present day.

302. *German Language and Literature of the Middle Ages*: Mr. Shetter.

Introduction to the history of the German language; reading of representative works such as the *Nibelungenlied* and selections from *Minnesang*.

[303. *The Classics of the Nineteenth Century*: Mr. Schmidt.]

A survey of German literary developments from the death of Goethe to Nietzsche and Hauptmann, with special emphasis on the great dramatists and lyric poets.

[304. *Modern German Literature*: Mr. Schmidt.]

Reading and discussion of works from dramatists (Hauptmann, Brecht, Zuckmayer), novelists (Mann, Hesse, Kafka) and lyric poets (George, Hofmannsthal, Rilke).

305a. *The German "Novelle"*: Mr. Schmidt.

Discussion of the evolution of this form, and close analysis of representative works.

[306. *The German Drama*: Mr. Schweitzer.]

The development of German drama from the mediaeval mystery play to the epic theatre of Bertolt Brecht.

307b. *German Poetry*: Mr. Schmidt.

Study of the work of major poets from a number of literary periods. Various critical approaches will be discussed and used.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination on selected masterpieces of German literature.
2. An examination on the history of a literary form, or on the history of the German language, or on an allied subject.
3. An examination on a period of German literature, or on an allied subject, if none has been offered under 2.

HONORS WORK: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences, and a long paper.

Greek

PROFESSORS:	RICHMOND LATTIMORE, PH.D., LITT.D. MABEL LOUISE LANG, PH.D., <i>Chairman</i>
INSTRUCTOR:	ANTHONY JOHN MARSHALL, M.A.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of epic and tragic poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

REQUIREMENTS IN THE MAJOR SUBJECT: Greek 1, 101, 201, and 301.

ALLIED SUBJECTS: Ancient History, Classical Archaeology, History of Art, any language, Philosophy.

1. *Elementary Greek*: Miss Lang.

Elements of grammar with prose composition and selected reading from ancient authors and the *New Testament* in the first semester; in the second semester, the *Apology* and *Crito* of Plato.

101. *Herodotus and Tragedy*: Miss Lang, Mr. Lattimore.

Private reading and prose composition are required.

- 102c. *Homer*: Mr. Marshall.

201. *Thucydides and Tragedy*: Mr. Marshall.

Private reading and prose composition are required.

301. *Lyric Poetry and Comedy*: Mr. Lattimore.

[302. *Early Greek Literature: History and Criticism*: Mr. Lattimore.]

The student selects her work from this field in consultation with the Department.

203.* *Greek Literature in Translation*: Miss Lang, Mr. Lattimore.

The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.

FINAL EXAMINATION: The final examination for students majoring in Greek consists of:

1. Sight Translation of Greek to English.
2. Two examinations from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-Century Historians, Fourth-Century Attic Prose. A student may substitute for one of these, an examination in one of the Allied Subjects.

HONORS WORK: Honors may be taken either in conjunction with advanced courses or after their completion.

History

PROFESSOR: CAROLINE ROBBINS, PH.D., *Chairman*

ASSOCIATE PROFESSORS: ARTHUR P. DUDDEN, PH.D.

DAVID J. HERLIHY, PH.D.

ASSISTANT PROFESSOR: MARY MAPLES DUNN, PH.D.

LECTURERS: ALAN SILVERA, M.A.

BARBARA M. LANE, PH.D.

INSTRUCTOR: PATRICIA HERLIHY, M.A.

ASSISTANT: ANN FAGAN, M.A.

PROFESSOR OF LATIN: THOMAS ROBERT SHANNON BROUGHTON, PH.D.

The chief aim of the History major is to give the student a sense of historical perspective and an insight into historical method. The development of ideas and institutions—political, social and economic—is stressed rather than the accumulation

of data about particular events. At the same time a more intensive study of certain topics and periods is required of every student in order to train her in the use of documents and to enable her to evaluate different kinds of source material. Extensive reading is assigned in all courses to familiarize History majors with the best historical writing and, in every year course except History 101, critical or narrative essays are required.

REQUIREMENTS IN THE MAJOR SUBJECT: In general, students are expected to offer four units of History and two units of allied work, the selection of courses depending upon the student's desire to specialize in Modern, Mediaeval or Ancient History. Students concentrating in Modern History must take some work in Ancient or Mediaeval History. History 301 is required of all students offering Modern History for the Final Examination; History 305, for all students offering Mediaeval History, or an equivalent approved by the Department.

ALLIED WORK: Courses in Economics and Political Science are recommended for History majors. Advanced courses in Philosophy, History of Art, Literature, Anthropology and Sociology are accepted as allied work if the subject matter is related to that of the History courses elected. For students specializing in Mediaeval and Ancient History, Greek, Latin and Archaeology are especially recommended.

101. *Mediaeval and Modern Europe:* Members of the Department.

The purpose of this course is to give a broad view of the development of European civilization from the fall of Rome to the present day as a general background for courses in other departments as well as for more advanced history courses. Students who have had a general survey in school in their last two years should elect instead of 101: 201, 202, 203, 205, 207, 208 or 209a.

Students should ordinarily take 205 (ancient) or 101: if both seem necessary, the department should be consulted.

[201. *History of England to 1783:* Miss Robbins.]

The treatment is topical, although a general chronology is maintained. Prehistoric, Roman, Saxon, Norman and later English society, constitutional, economic and intellectual development are among the subjects studied. Ireland, Scotland and

Wales receive special attention. This course is open to all students. Given in alternate years.

202. *History of the United States*: Mr. Dudden.

A survey of American civilization to the present day. The first semester covers colonial and national developments to the end of the Civil War period. The second semester describes the emergence of modern America.

203. *Mediaeval Civilization*: Mr. Herlihy.

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included. Given in alternate years.

204a. *Revolutionary Europe 1787-1850*: Mr. Silvera.

About one half of the semester is devoted to the French Revolution; the second half to the spread of revolutionary ideas and the idea of nationalism throughout Western Europe during the Napoleonic period and the first half of the Nineteenth Century culminating in the Revolution of 1848.

204b. *Europe and Its Expansion in the Nineteenth Century*: Mr. Silvera.

European, continental, and overseas development from the period of the Revolution of 1848 until the end of the Boer War in 1902. Stress will be placed on industrial developments, imperialism; on European activities in Africa, Asia and the Near East.

205.* *Ancient History*: Mr. Broughton.

The first semester is devoted to study of the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the hellenistic world to the reign of Constantine I. The course demands essays, and reading of typical sources for each period.

206. *History of Russia*: Mr. Herlihy, Mrs. Herlihy.

A survey of Russian history until the Revolution of 1917. The first semester is devoted to Russian history until Peter the Great; special emphasis will be placed on the Byzantine background of Russian history. The second semester deals with Russia under Tsarism.

- 207a. *Age of Revolution: America in the Eighteenth Century:* Mrs. Dunn.

A study of the thirteen colonies, with particular emphasis on social and intellectual history, culminating in the American Revolution and the adoption of the constitution.

- 207b. *The Rise of the Americas:* Mrs. Dunn.

A comparative study of the colonial process and revolutionary movements in the Americas. Particular emphasis will be placed on developments in Latin America.

- [208. *Social and Economic History of Mediaeval and Early Modern Europe:* Mr. Herlihy.]

Topics considered include European economic geography, agricultural settlements, demographic trends, rise of the manor and seigneurie, rise and development of towns, agricultural and industrial technology, commerce and commercial institutions, social structure and economic theories. Particular attention is paid to the period between the seigneurial-urban revolution of the eleventh century and the industrial revolution of the eighteenth.

- 209a. *The Emergence and Decline of States in Europe and Asia in the Seventeenth and Eighteenth Centuries:* Miss Robbins.

Among topics discussed will be: the decline of Spain, Poland, and the Mogul Empire; the ascendancy of France; the rise of Sweden, Russia, Prussia, the Manchu Dynasty; mercantilism and the commercial revolution; the structure of absolutism, mixed monarchy and federal governments; the development and rivalries of the French, English and Dutch East India Companies; religious controversies and movements, Jesuit, Jansenist, Deist, Mystic.

- 210b. *Topics in the History of the Modern Near East:* Mr. Silvera.

A survey of the development of the Arab world and Turkey in the nineteenth and twentieth centuries with special emphasis on political and intellectual history and the social structure of the emerging Arab states. The legacy of Islam, the decline of the Ottoman Empire, the impact of the West and the rise of Arab nationalism are among the topics considered.

301. *Europe in the Twentieth Century*: Mrs. Lane.

The first semester reaches and includes the settlement after the first World War; the second, the events from 1919 to the present. The course deals not only with diplomatic events but special emphasis is placed on the internal developments in the European states and on their social structure.

303a. *The Expansion of the American Nation*: Mr. Dudden.

Emphasis will be placed on the major developments of the late nineteenth and early twentieth centuries. Industrialism and immigration, urbanism and social change, expansionism, war and intellectual movements will be treated.

303b. *The American People in the Recent Past*: Mr. Dudden.

The history of the United States in our own time, emphasizing political, social, economic, and intellectual developments since the first World War, with special consideration for the impact of scientific and technological progress and for the problems peculiar to the construction of the history of the recent past.

304a. *English History in the Nineteenth Century*: Miss Robbins.

Special attention is given to the structure of English government and its adaptation to modern economic and social conditions as well as to the growth of the second empire and its institutions. Given in alternate years. In 1962-3 attention will focus on mid-century, 1828-1880.

[305. *Renaissance and Reformation*.]

The course is concerned with European History from the fourteenth to the sixteenth century. The first term deals with the Renaissance, the second with the Reformation. Emphasis will be placed not only on the political and social developments, but also on the intellectual history of the period. Given in alternate years.

[306a. *The Enlightenment*: Miss Robbins.]

The intellectual history of the seventeenth and eighteenth centuries is studied in seminar discussions of selected books illustrating, amongst other things, the scientific revolution, the growth of skepticism, the traveler and the movement of ideas, morality and taste, optimism, the philosophic critics and analysts of government, law and international relations. Open only to upperclassmen.

306b. *Great Historians*: Miss Robbins.

Each week the work of one or two historians is read and discussed in relation to the historical and scholarly presuppositions of its age. Emphasis is laid on reading and analysis rather than on any attempted survey of historical literature. The course, however, pursues a roughly chronological order starting with the Greeks and ending with Spengler and Toynbee.

FINAL EXAMINATION: The final examination for students in History consists of three parts, two of which must deal with general European history. Unless special permission is given by the Department these two fields should form a sequence in mediæval or in modern history. The fields offered are as follows:

1. Ancient History to A.D. 378 (Special field)
2. History of Europe 378 to 1300
3. History of Europe 1300 to 1648
4. History of Europe 1648 to 1830
5. History of Europe 1830 to 1950
6. History of England (Special field)
7. History of the United States (Special field)
8. History of Russia (Special field)

The examinations in Ancient, English, Russian and American history will be based on concentrated study of a special field selected by the Department to meet the needs of the senior class. With the consent of the departments concerned a student may write her third examination in a field of allied work. She must consult her major department about her choice and any change in this during the junior year.

HONORS WORK: Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1. The award of the degree with Honors in History will depend on the character of this honors paper and on the candidate's performance in the final examination.

History of Art

PROFESSOR:	CHARLES MITCHELL, M.A., B.LITT., <i>Chairman</i>
ASSOCIATE PROFESSORS:	JAMES W. FOWLE, Ph.D. WILLIAM C. LOERKE, M.F.A., Ph.D.
VISITING LECTURER IN SPANISH AND HISTORY OF ART:	ENRIQUE LAFUENTE FERRARI, Ph.D.
INSTRUCTOR:	GERALD M. ACKERMAN, M.F.A.
ARTIST IN RESIDENCE:	FRITZ JANSCHKA
ASSISTANT:	SADJA HERZOG, A.B.

The history of art is studied as an historical discipline. The Department normally offers an introductory course and a series of special courses. Workshop supervision is also offered by the Artist in Residence, for which there is no tuition fee and academic credit is not granted.

REQUIREMENTS FOR THE UNDERGRADUATE MAJOR: A minimum of four full-year courses (or the equivalent) is required, consisting of the introductory course (normally) and three others. A 200 course may be modified to count as advanced at the discretion of the Department. It is advisable for anyone contemplating a major in the history of art to consult the Department as early as possible in her college career.

ALLIED SUBJECTS: History, Latin, Greek, Modern Languages, Archaeology; others in consultation with the Department.

101. *Introduction to Art History*: Mr. Loerke, Mr. Mitchell.

The course is designed as an introduction to the methods and scope of art history in the field of Western art from mediæval to modern times. Studio work, two hours weekly, with Mr. Janschka is also required.

201. *Mediaeval Art*: Mr. Loerke.

Selected topics and works from the fourth to the fourteenth century.

202. *Renaissance Art*: Mr. Mitchell.

European Renaissance art from the fourteenth to the sixteenth century.

203. *Baroque Art*: Mr. Ackerman.

European art from the late sixteenth to the early eighteenth century.

204. *Modern Art*: Mr. Fowle.

European art from the late eighteenth to the early twentieth century with emphasis on French painting.

212b. *Renaissance Architecture*: Mr. Ackerman.

The architecture of the fifteenth and sixteenth centuries will be studied in European rather than national terms. Contemporary books on architectural theory will be the subject of special problems and investigations.

300a. *Texts for Art-Historians*: Mr. Mitchell.

A course designed to give advanced students of art-history instruction and practice in the reading and interpretation of written documents bearing on the history of art. Participants need some elementary knowledge of Latin and a working knowledge of two at least of the following languages: French, Italian, German.

[305. *The Art of the Far East*.]

The arts of China, Buddhist India, and Japan.

311b. *The Dome*: Mr. Loerke.

A course for advanced students of Mediaeval culture requiring a working knowledge of three of the following languages: Latin, German, French, Italian.

324a. *Twentieth Century Painting*: Mr. Fowle.

A course for advanced students of Modern art, history, or literature. It will be concerned with a number of individual artists and artistic movements. A reading knowledge of French will be required; German and Italian will be useful to members of the course.

333b. *Velasquez*: Mr. Lafuente.

The painter's art, his epoch, and his influence on later painting. To be given in *French*.

FINAL EXAMINATION: The final examination for students majoring in the History of Art consists of three parts of three hours each:

1. An examination to test knowledge of works of art.
2. A general examination on the history of art.
3. An examination on a special field or topic.

HONORS WORK: Honors work is offered to students recommended by the Department.

History of Religion

PROFESSOR OF LATIN: AGNES KIRSOPP MICHELS, PH.D.

ASSOCIATE PROFESSOR

OF PHILOSOPHY: JEAN A. POTTER, PH.D.

Appointment to be announced.

Courses in the History of Religion may be taken as electives or in connection with certain major fields as allied work. Philosophy of Religion may be taken in the Department of Philosophy as one of the fields for the Final Examination.

No major is offered in the History of Religion.

103. *Literary History of the Bible*: Mrs. Michels.

The history of the Bible, with special emphasis on analysis of text and on literary forms.

[201a. *Judaism and Early Christianity*.]

[201b. *Comparative Religion*.]

203a. *Philosophy of Religion*: Miss Potter.

The existence and nature of God and the character of religious language.

Italian

PROFESSOR: ANGELINE HELEN LOGRASSO, PH.D.,
Chairman

ASSISTANT PROFESSOR: BERNARD TOSCANI, PH.D.

The aims of the major are to acquire a knowledge of the Italian language and literature and to acquire an understanding of Italian culture and its contribution to Western civilization. Majors in Italian are urged to spend the Junior Year in Italy or to study in approved summer schools in Italy or in the United States.

REQUIREMENTS IN THE MAJOR SUBJECT: Italian 1, 201, 202, and two other advanced courses.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests. Collateral work in the Language Laboratory is required for Italian 1 and 101. In all courses students are urged to use tapes available in the Language Laboratory.

1. *Italian Language*: Miss Lograsso.

A practical knowledge of the language is acquired through hearing, speaking, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of Italian literature. The course meets five times a week.

101. *Intermediate Course in the Italian Language*: Mr. Toscani.

Readings from modern Italian authors and topics assigned for composition and discussion, conducted entirely in Italian.

[102c.* *Dante in English Translation*: Miss Lograsso.]

The New Life and Divine Comedy.

[103c.* *Literature of the Italian Renaissance in English Translation*: Miss Lograsso.]

From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance, with special reference to their influence on other literatures.

201. *Classics in Italian Literature*: Miss Lograsso.

Reading and explanation of texts, with a study of literary history; conducted mostly in Italian.

[202. *Dante*: Miss Lograsso.]

The Vita Nuova and Divina Commedia, with some attention to the minor works. With departmental approval, open to anyone who can read Italian.

[302c. *Advanced Course in the Italian Language*: Miss Lograsso.]

Advanced work in composition.

303. *Italian Literature of the Rinascimento*: Miss Lograsso.

[304. *Italian Literature of the Romantic Period*: Miss Lograsso.]

JUNIOR YEAR ABROAD: Students approved by the Department and the Dean may be recommended for the Junior year in Perugia and Florence under the auspices of the Smith College Group.

FINAL EXAMINATION: The final examination consists of three parts:

1. The Italian Language: ability to understand and speak the spoken idiom; ability to write the language.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or an examination on an allied subject.

For the second part, the emphasis may be placed on the Mediaeval, Renaissance, Romantic or Modern period.

HONORS WORK: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

PROFESSORS:	THOMAS ROBERT SHANNON BROUGHTON, PH.D., <i>Chairman</i>
	BERTHE MARIE MARTI, PH.D.
	AGNES KIRSOPP MICHELS, PH.D.
INSTRUCTOR:	ANTHONY JOHN MARSHALL, M.A.

The major in Latin is planned to give the students familiarity, through careful reading in the original, with the most important works of Latin literature and an understanding of Roman civilization as revealed in literature. A further aim of the major is to give the students some sense of the importance of Roman literature in our tradition and of the contribution of Roman civilization to the modern world. Study of language and style is an essential part of the work, but only one course is entirely devoted to such study. Students are given an opportunity to choose whether they wish to work intensively on literary criticism or on problems dealing with Roman civilization.

REQUIREMENTS IN THE MAJOR SUBJECT: Latin 101, 201 and either 301 or 302. Honors students are required to take Latin 203. Students who plan to teach Latin are advised to take this course.

ALLIED SUBJECTS: History, Classical and Near Eastern Archaeology, Greek, History of Art, History of Religion, Philosophy, any modern literature.

1. *Elementary Latin*: Miss Marti.

This course is planned to cover three units of entrance Latin. Students who have completed it satisfactorily may take Latin 101.

[2. *Intermediate Latin*.]

The course includes a review of grammar and reading in prose and poetry equivalent to the third and fourth years of entrance Latin. Prerequisite: two units of entrance Latin.

101. *Latin Literature*: Mr. Broughton, Mrs. Michels.

Selections will be read from the poems of Catullus, a play of Plautus, the *Eclogues* of Vergil and from Lucretius in the first semester; and from Livy's *History* and the *Odes* of Horace in the second. Prerequisite: at least three units of entrance Latin.

201a. *Plautus, Terence, and Horace*: Mr. Marshall.

Reading in the plays of Plautus and Terence during the first half of the semester and from the *Satires* and the *Epistles* of Horace during the second.

201b. *Latin Literature of the Silver Age*: Miss Marti.

Reading from the works of the chief authors with special attention to the development of literary types during the period.

202c.* *Mediaeval Latin Literature*: Miss Marti.

The reading includes selections from the most important mediaeval writers from St. Augustine to Thomas Aquinas. Prerequisite: four units of entrance Latin or Latin 2, or Latin 101.

203. *Latin Style*: Mr. Marshall, Mrs. Michels.

A study of the style and technique of the main Roman authors and of the chief meters of Roman poetry with practice in the writing of Latin prose and verse. This course may be taken as one half-unit throughout the year by students wishing to omit the material on versification.

301a. *Vergil's Aeneid*: Mrs. Michels.

301b. *Tacitus and Livy*: Mr. Broughton.

[302a. *Cicero and Caesar*: Mr. Broughton.]

[302b. *Lucretius*: Mrs. Michels.]

FINAL EXAMINATION: The final examination for students majoring in Latin consists of three three-hour examinations in the following fields:

1. Latin Sight Translation.
2. An examination on one of the following subjects:
 - a. Latin Literature of the Republic
 - b. Latin Literature of the Empire
 - c. Latin Literature of the Ciceronian and Augustan Age
 - d. Roman History from the Sources (100 B.C. to 70 A.D.)
3. An examination on one of the following subjects:
 - a. An allied subject (Students are advised if possible to take the third examination in Greek)
 - b. A second subject from Group 2 (Choice must avoid duplication of material)
 - c. The development in Latin literature of an important literary type
 - d. An important period or type in Mediaeval Latin Literature
 - e. Latin Prose Style

HONORS WORK: Honors work either in classical or in mediaeval Latin is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.

Mathematics

PROFESSORS:	JOHN C. OXTOBY, M.A., <i>Chairman</i> MARGUERITE LEHR, PH.D.
ASSOCIATE PROFESSOR:	FREDERIC CUNNINGHAM, JR., PH.D.
ASSISTANT:	FRANCES C. PASCALE, A.B.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study. The courses in calculus are basic for all applications of mathematical analysis and for more advanced work in function theory. The courses in algebra

and geometry introduce the student to some of the unifying ideas and postulational methods that are characteristic of much of modern mathematics.

REQUIREMENTS IN THE MAJOR SUBJECT: Mathematics 101, 201, 202c, 301, 303a, and at least one other advanced half course.

ALLIED SUBJECTS: Chemistry, Economics, Philosophy, Physics and Psychology.

101. *Calculus, with Analytic Geometry*: Mr. Oxtoby, Mr. Cunningham.

Differentiation and integration of algebraic and elementary transcendental functions, with the necessary elements of analytic geometry and trigonometry. The interplay between mathematical ideas and applications is exploited.

201. *Second-Year Calculus*: Mr. Cunningham.

The definite and indefinite integral, infinite series, partial derivatives, multiple integrals, differential equations, with applications to geometry, physics, and chemistry.

202c. *Solid Analytic Geometry and Algebra*: Miss Lehr.

Determinants, vectors, matrices, and selected topics from the Theory of Equations; linear algebra motivated by and applied to space geometry; classification and transformation of planes and quadric surfaces.

301. *Advanced Calculus*: Mr. Oxtoby.

The classical theory of real functions, based on Cantor's construction of the real number system; the Riemann integral, functions defined by power series, Fourier series, functions of several variables. Prerequisite: Mathematics 201.

[302b. *Introduction to Geometric Theories*.]

Analytic generalizations and group-theoretic classification, as related to postulational methods and the problem of introducing coordinates. Development motivated from the basic projective, Euclidean, and non-Euclidean space theories. Prerequisite: Mathematics 202c.

303a. *Introduction to Abstract Algebra*: Miss Lehr.

Permutations, linear transformations, abstract groups, rings, and fields; postulational characterization of number systems. Prerequisite: Mathematics 202c.

304a. *Theory of Probability and Statistics.*

Mathematical formulation of problems of statistical inference, exhibiting the inherent probability aspect. Probability distributions for discrete and continuous ranges; sampling theory; central limit theorems; tests of hypotheses. Prerequisite: Mathematics 201.

[305b. *Topics in Differential Geometry*: Miss Lehr.][310. *Theory of Functions of a Complex Variable*.]

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

[311b. *Differential Equations*.]

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems.

203.* *Linear and Statistical Methods*: Miss Lehr.

A course designed to develop mathematical vocabulary and methods useful in the description and analysis of mass data, and for statistical inference from such data. Topics include linear systems and matrices, correlation and regression methods, simple programming problems, basic probability models, elements of sampling theory.

FINAL EXAMINATION: The final examination consists of three parts: (a) an examination in analysis, (b) an examination in algebra and geometry, and (c) an examination in some particular branch of advanced analysis or geometry, or in an allied field.

HONORS WORK: Qualified students are admitted to Honors work on recommendation of the Department.

Music

PROFESSOR AND DIRECTOR
OF CHORUS:

ROBERT L. GOODALE, B.MUS., A.A.G.O.,
Chairman

PROFESSOR AND DIRECTOR

OF ENSEMBLE GROUPS: AGI JAMBOR, M.A.

VISITING PROFESSOR: HORACE ALWYNE, F.R.M.C.M.

ASSISTANT PROFESSOR: SYLVIA W. KENNEY, B.MUS., PH.D.

DIRECTOR OF ORCHESTRA: WILLIAM H. REESE, PH.D.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to recordings assigned by the Department.

REQUIREMENTS IN THE MAJOR SUBJECT: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. A student intending to major in Music must have sufficient knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach figured chorale. She is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group.

ALLIED SUBJECTS: History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

101. *An Introduction to the History and Appreciation of Music:* Miss Kenney and members of the Department.

A general survey of music in western civilization, with emphasis on the evolution of polyphonic music from the tenth to the twentieth century.

102. *Music Materials:* Mr. Goodale.

A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis and an introduction to orchestration.

201. *The Romantic Period*: Mr. Alwyne.

An intensive study of nineteenth-century music. The Symphonic Poem, Art-Song and Music-Drama. Expansion of orchestral and pianoforte technique; development of symphonic and chamber-music forms; growth of nationalism. Prerequisite: Music 101 or its equivalent.

202. *Advanced Theory and Analysis*: Mr. Goodale.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

203a. *Bach*: Mme Jambor.

Prerequisite: Music 101 or its equivalent.

203b. *The Classical Period*: Mme Jambor.

Prerequisite: Music 101 or its equivalent.

301a. *Opera and Music Drama*: Miss Kenney.

The evolution of opera from Gluck to Berg. Prerequisites: Music 101 and 102 or their equivalents.

301b. *Music of the Twentieth Century*: Mr. Goodale.

The continuing stream of romanticism in modern adaptations. Neo-classicism and Expressionism. Experimental new phases in linear counterpoint, polyrhythms, polytonality and micro-tonality. Prerequisites: Music 101, 102 and 202 or their equivalents.

[302a. *Mediaeval and Early Renaissance Music*: Miss Kenney.]

The rise of liturgical music in the early Christian Church. The development of polyphony in the tenth century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101, 102 or their equivalents. Alternate with Music 301a.

[302b. *Late Renaissance and Baroque Music*: Miss Kenney.]

The great periods of vocal counterpoint during the fifteenth and sixteenth centuries. The creation of new forms in the seventeenth century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 or their equivalents. Alternate with Music 301b.

[303a. *Orchestration*: Mr. Goodale.]

Prerequisites: Music 101, 102 and 202 or their equivalents. Music 202 may be taken concurrently with this course.

[303b. *Russian Music*: Mr. Alwyne.]

The development of Russian music from the time of its emergence from foreign domination in the early nineteenth century to the period of the Second World War. Prerequisites: Music 101, 102 or their equivalents.

304c. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme Jambor.

Prerequisites: Music 101 and 102 or their equivalents.

305. *Free Composition*: Mr. Goodale.

This course is designed for those students whose chief interest lies in the field of composition. It may be taken only with the permission of the instructor.

HONORS WORK: Honors work is offered for students recommended by the Department.

FINAL EXAMINATION: The final examination consists of three parts with three-hour examinations in each:

1. The History of Music.
2. The Theory of Music.
3. Special field, which may be taken in an allied subject.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Chorus participates in concerts with choruses from men's colleges and also takes part in special College services. Major works for women's chorus and mixed chorus are studied and performed. The Double Octet, drawn from the Chorus on a competitive basis, frequently sings at concerts and occasionally goes on trips as an independent unit.

The Orchestra, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

The Ensemble Groups, also organized jointly with Haverford College. Students in these groups are afforded the opportunity of studying chamber-music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense, with no academic credit. Lessons in other instruments may be arranged locally or in Philadelphia. The Department will be glad to assist in these arrangements.

Philosophy

PROFESSORS:	MILTON CHARLES NAHM, B.LITT., PH.D., <i>Chairman</i> JOSÉ MARIA FERRATER MORA, <i>Lic. F.L.</i> HUGUES LEBLANC, PH.D. ISABEL SCRIBNER STEARNS, PH.D.
ASSOCIATE PROFESSORS:	GEORGE L. KLINE, PH.D. ¹ JEAN A. POTTER, PH.D.
LECTURER:	ROSAMOND KENT SPRAGUE, PH.D.
ASSISTANTS:	JOHN CASSIDY, M.A. PRISCILLA COHN, A.B.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in Western thought, as well as to provide training in the techniques proper to the subject.

The History of Philosophic Thought provides the major students with a common background, training and language. Further study offers not only historical information but insight into methodology and systematization, with training in the techniques of logic and theory of value. Metaphysics, aesthetics and the other advanced studies, besides their intrinsic importance, show the relations of philosophy to art, science, history, mathematics and religion.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical and productive speculation.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in Philosophy are required to take the first-year course, the second year half-courses in German Idealism, Logic, Ethics, and either Recent Metaphysics, Hegel, Philosophy of Religion or Mediaeval Philosophy, and one advanced course. With permission, students may take second-year courses for third-year credits.

1. On sabbatical leave, semester I, 1962-63.

ALLIED SUBJECTS: Biology, Chemistry, Economics, English, Greek, French, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, and certain courses in History of Religion and Sociology and Anthropology.

101. *History of Philosophic Thought*: Mr. Nahm, Miss Stearns, Mr. Ferrater Mora, Mr. Leblanc, Mr. Kline, Miss Potter, Mrs. Sprague.

Some writings of the major philosophers, classic and modern, are studied and discussed.

- 201a. *German Idealism*: Mr. Ferrater Mora.

The philosophy of Kant.

- 201b. *Recent Metaphysics*: Miss Stearns.

The metaphysics of Bradley, Bergson, Whitehead, and related thinkers.

- 202a. *Logic*: Mr. Leblanc.

An introduction to modern logic.

- 202b. *Ethics*: Miss Potter.

The theory and problems of various types of ethics, hedonist, utilitarian, rational and idealist, with particular emphasis upon the analysis of action and judgment, rightness and goodness, and obligation.

- 203a. *Philosophy of Religion*: Miss Potter.

The existence and nature of God and the character of religious language.

- 203b. *Mediaeval Philosophy*: Miss Potter.

The history of the development of mediaeval philosophy from its origins in classical and Patristic thought to the fifteenth century.

- [205a. *Russian Ethical and Social Theory*: Mr. Kline.]

A critical survey of major trends in Russian ethics and social philosophy from the eighteenth century through the Soviet period, with principal emphasis upon nineteenth-century thinkers, both Marxist and non-Marxist.

- 205b. *Hegel*: Mr. Kline.

A study of Hegel's philosophy, with emphasis upon *The Phenomenology of Mind* and with some reference to the Hegelian influence on Existentialism.

301a. *Aesthetics*: Mr. Nahm.

Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic experience.

301b. *Theory of Knowledge*: Mr. Leblanc.

An analysis of the scope, structure and methods of science in the light of recent philosophy.

302a. *Plato*: Miss Stearns.

A detailed study of some of the later dialogues.

[302b. *Philosophy of History*: Mr. Ferrater Mora.]

The philosophical interpretation of history, its meanings and laws.

303a. *Continental Rationalism*: Miss Potter.

A study of the metaphysical systems of Descartes, Spinoza, and Leibniz and their background in scholastic and Renaissance thought.

[303b. *Contemporary Philosophy*: Mr. Ferrater Mora.]

An outline and appraisal of some major present-day schools, such as Phenomenology, Existentialism, Logical Positivism, Neo-Scholasticism, Marxism and others.

304b. *Aristotle*: Mr. Ferrater Mora.

A study of Aristotle's system, with emphasis upon such fundamental problems as language, substance, change, being and the Prime Mover.

FINAL EXAMINATION: The final examination consists of three written examinations in the following fields, offering a wide choice of questions: Ancient Philosophy, Modern Philosophy or Philosophy of Religion. For the first two, a subject such as "causation," "mind," "freedom" or "time" is studied in the writings of important philosophers. For the third, a field in Philosophy of Religion or the philosophy of an important modern thinker is intensively examined.

HONORS WORK: Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics and science, or with some special field in which the student is working.

Physics

PROFESSOR:	WALTER C. MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ROSALIE C. HOYT, PH.D. JOHN R. PRUETT, PH.D.
ASSISTANT PROFESSOR:	W. PAUL GANLEY, PH.D.
ASSISTANTS:	PRISCILLA WATSON, A.B. THOMAS J. HIGGINS, B.S. ROBERT E. NEEL, B.S. IMRE A. SZALAI, B.A.

The courses offered to students majoring in Physics emphasize the techniques that have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena.

REQUIREMENTS IN THE MAJOR SUBJECT: Physics 101, 201a and 202b, and at least one and one-half units of advanced work, to be chosen from 301-305 inclusive; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended.

ALLIED SUBJECTS: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. *Introduction to Modern Physics*: Mr. Michels, Mr. Ganley.

A study of the principal phenomena of classical and modern physics in the light of the developments of the past sixty years. Three lectures and three hours of laboratory a week.

[102. *Introductory Chemistry and Physics*.]

See Interdepartmental Course 102, page 114.

201a. *Electricity and Magnetism*: Mr. Pruett.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents,

electrostatic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101, Mathematics 201 (may be taken concurrently).

202b. *Optics*: Mr. Pruett.

Geometrical optics, interference and diffraction phenomena, polarization. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. *Classical Mechanics*: Mr. Ganley.

Newtonian mechanics of particles and of rigid bodies, special relativity, generalized mechanics. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

303b. *Thermal Properties of Matter*: Mr. Michels.

The application of mechanics and probability concepts to systems of particles; the laws of classical thermodynamics and their connection with statistical models; equilibrium and transport problems; classical and quantum statistics. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics*: Miss Hoyt.

The foundations of classical mechanics and electromagnetic theory, including generalized mechanics, vibrating systems, the wave equation, Laplace's equation, Maxwell's equations, electromagnetic waves. Mathematical methods are developed as needed. Four lectures a week. Prerequisites: Physics 201a, 201b, 301a and 302b (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a and 303b.

305c. *Physical Measurements*: Mr. Ganley.

Precision measurements of electromagnetic, optical and atomic phenomena. Four hours of laboratory a week. Prerequisites: Physics 301a and 303b (may be taken concurrently).

[351.* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

The emphasis of this course is divided between the experimental techniques and the theoretical methods of physics. Examples of applications of these methods and techniques will be chosen to meet the major interests of the students. Three lectures

and four hours of laboratory a week. Prerequisites: Physics 101, Mathematics 101 and second-year work in Chemistry or Biology.

FINAL EXAMINATION: The final examination for students majoring in Physics is in three parts:

1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in the special field of Atomic and Nuclear Physics (required of all students). The student will devote one semester of the preparation for the final examination in independent work and reading for this examination.

HONORS WORK: Honors work may be taken by seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.

Political Science

The Caroline McCormick Slade Department of Political Science

PROFESSOR:	ROGER H. WELLS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	PETER BACHRACH, PH.D. MELVILLE T. KENNEDY, JR., PH.D. GERTRUDE C. K. LEIGHTON, A.B., LL.B. ¹
LECTURER:	CHARLES J. COOPER, A.B., LL.B.
ASSISTANT:	RICHARD A. GILLIS, A.B.

DEAN OF THE
COLLEGE:

DOROTHY NEPPER MARSHALL, PH.D.

The major in Political Science is concerned with study of theories of government and with analysis of the structures and processes of modern political communities.

REQUIREMENTS IN THE MAJOR SUBJECT: Political Science 101a and 102b, one unit of second-year work and one unit of advanced work and Economics 101. The second-year courses in Political

1. On partial leave of absence for the year 1962-63.

Science are open to students who are not majors in the Department if they have completed one unit in allied subjects. With the permission of the Department, various courses at Haverford College may be taken for major or allied credit.

ALLIED SUBJECTS: Anthropology, Economics, Education, History, Philosophy, Psychology and Sociology. With the permission of the Department, certain courses offered by the modern language departments may be accepted as allied subjects.

- 101a. *Political Process in the United States*: Mr. Bachrach, Mr. Cooper.

An introduction to the study of American political behavior. Major attention is given to the political, economic and social beliefs of democracy and to the governmental institutions and processes through which they are expressed. Decision-making and the sharing of power are examined in relation to the individual and to political parties, pressure groups and public opinion.

- 102b. *World Political Process*: Mr. Cooper and Instructor to be announced.

An introduction to the study of political behavior at the international level. The course deals with the basic institutions, processes, values and resources common to peoples and nation-states.

- 201a. *Western Political Theory, 1600 to the Present*: Mr. Bachrach.

A study of the fundamental problems of modern Western political thought, based on an analysis of the writings of the leading theorists.

- 202b. *American Constitutional Law*: Mr. Bachrach.

A detailed analysis of selected Supreme Court decisions on four or five leading topics.

- 203a. *Government and Politics in East Asia*: Mr. Kennedy.

An examination of both traditional and contemporary political ideas and institutions directed particularly to the question

of continuity and change in the present scene. The course focuses on China and Japan.

204b. *Communism and Nationalism in Asia*: Mr. Kennedy.

A survey of the development of modern China, including Sino-Japanese and Sino-Russian relations. The course primarily aims to throw light on the nature of Communist China.

[205a. *Political Parties*: Mr. Wells.]

[206b. *Britain and the Commonwealth*: Mr. Wells.]

[207a. *The Soviet System*: Mr. Hunter, Haverford College.]

See Interdepartmental Course 208a, page 114.

[301. *The Theory and Practice of Democracy*.]

See Interdepartmental Course 301, page 114.

302a. *Western Political Theory, Plato to 1600*: Mr. Wells.

With special reference to the sixteenth century.

303b. *France and Germany*: Mr. Wells.

A study of France and Germany since 1945 against the background of postwar international relations.

304a. *Aspects of Latin American Politics and Economics*: Mrs. Marshall and Mr. Baratz.

See Interdepartmental Course 304a, page 115.

305b. *American Political Theory*: Mr. Bachrach.

The development of American political ideas from the Revolution to the present, with some attention to the English and Colonial origins.

306a. *Law and Society*: Miss Leighton.

An introduction to the nature of legal obligation and its relation to selected social institutions. Typical legal problems pertaining to the family, business and government are discussed.

- [307b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz (Department of Economics).]

See Interdepartmental Course 307b, page 115.

- [308a. *Government and Politics in Metropolitan Areas*: Mr. Wells.]

- 309b. *International Law*: Miss Leighton.

An examination of the doctrines and practices of international law. Traditional material is considered in the context of the contemporary political process, with some emphasis on methodological problems.

- 310a. *Problems in International Politics*: Mr. Kennedy.

A consideration of the origins of the Cold War, characteristics of the opposing systems, economic conflicts and trends, the accommodation of nuclear power, the role and modes of diplomacy. Stress will be placed on establishing terms and categories for assessing the current state of international conflict.

- 311b. *India*: Instructor to be announced.

FINAL EXAMINATION: The final examination consists of two three-hour examinations, the first of which is the general examination in Political Science and must be taken by all seniors majoring in the Department. The second represents a more limited field and is to be selected from the following: Political Theory; The Legal Process; The American Political Community; World Political Systems. If desired, the second part of the final examination may deal with an allied subject. Seniors are expected to attend the weekly senior conference.

HONORS WORK: In addition to the course requirements, one unit of Honors work may be taken by Political Science majors under the supervision of members of the Department. This involves a weekly conference by the student with her supervisor; independent reading, research and, where necessary, field work; and a written report on the topic selected.

Psychology

PROFESSORS:	MORTON EDWARD BITTERMAN, PH.D., <i>Chairman</i> RACHEL DUNAWAY COX, PH.D.
ASSOCIATE PROFESSORS:	DONALD ROBERT BROWN, PH.D. ROBERT SIMON DAVIDON, PH.D. WILLIAM AUGUST WILSON, JR., M.D., PH.D.
ASSISTANT PROFESSOR:	RICHARD CHARLES GONZALEZ, PH.D.
ASSISTANTS:	SANDRA MILSTEIN, M.A. PAUL BAINBRIDGE, B.A.

The Department offers to the major student a representative account of methods and findings in the principal areas of psychology. Problems of application are considered, and the relation of psychology to other natural and social sciences is emphasized. The major program prepares the student for graduate work.

REQUIREMENTS IN THE MAJOR SUBJECT: Psychology 101; two of the following four courses: Psychology 201a, 203b, 205a, 301b; two of the following four courses: Psychology 202b, 302a, 303b, 304b; Psychology 307a; and one additional unit in Psychology. Psychology 204a is strongly recommended to students preparing for graduate work.

ALLIED SUBJECTS: Anthropology, Biology, Economics, Education, Mathematics, Philosophy, Physics, Political Science, and Sociology.

101a. *General Psychology*: Mr. Gonzalez.

A survey of basic facts and principles: perception, motivation, emotion, learning, thinking. Three hours of lecture and two hours of laboratory each week.

101b. *Social Psychology*: Mr. Brown.

The psychological determinants of social behavior. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101a.

201a. *Comparative Psychology*: Mr. Bitterman.

The psychology of animals: instinctive activities, motivation, learning, the evolution of intelligence. Three hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 101

202b. *Psychological Testing*: Mr. Davidon.

Trait assessment and prediction; demonstration and evaluation of principal tests; scaling and test development; the structure of human abilities. Three hours of lecture and two hours of laboratory each week. Prerequisites: Psychology 101 and Psychology 204a or permission of instructor.

203b. *Human Learning and Thinking*: Mr. Bitterman.

Verbal learning and retention; meaning and creative thought. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 201a.

204a. *Experimental Methods and Statistics*: Mr. Wilson.

Measurement and the design of experiments; descriptive statistics, probability, association, testing of hypotheses. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

205a. *Perception*: Mr. Davidon.

Differentiation and organization of the environment; the body perceived; attention, value, and past experience in judgment. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

301b. *Physiological Psychology*: Mr. Wilson.

The bodily basis of experience and behavior. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 101.

302a. *Psychology of the Normal Personality*: Mr. Brown.

Developmental, clinical and experimental evidence relating to the 'normal' personality. Supervised case-study. Prerequisite: Psychology 101.

303b. *Advanced Social Psychology*: Mr. Brown.

The psychological implications of man's social existence. Prerequisite: Psychology 101 or permission of the instructor.

304b. *Psychology of the Abnormal Personality*: Mrs. Cox.

Concepts of normality, types of abnormality, methods of investigation and principles of psychotherapy. Three hours of lecture each week and occasional trips to local hospitals for special lectures and demonstrations. Prerequisite: Psychology 101.

306a and b. *Advanced Experimental Psychology*: Members of the Department.

Specialized training in a selected area of investigation. May be taken in either semester or throughout the year. Prerequisite: Permission of the Department.

307a. *History of Psychology*: Mr. Gonzalez.

A seminar for senior majors on the historical background of contemporary psychology. Two hours each week.

Comprehensive Survey: Members of the Department.

Weekly conferences with majors during the second semester of the senior year in preparation for the Final Examination.

FINAL EXAMINATION: The final examination is in three parts:

1. General Psychology.
2. Experimental Methods.
3. A specialized examination in one of the following fields:
 - Comparative Psychology
 - Human Learning and Thinking
 - Perception
 - Personality, Normal and Abnormal
 - Physiological Psychology
 - Psychological Testing
 - Social Psychology

An Honors Thesis or (with the approval of the Department) an examination in an allied field may be substituted for Part 3.

HONORS WORK: One unit of Honors work may be taken by students nominated by the Department. This unit may be substituted for Part 3 of the final examination.

Russian

ASSOCIATE PROFESSORS: FRANCES DE GRAAFF, PH.D., *Chairman*
GEORGE L. KLINE, PH.D.¹

ASSISTANT PROFESSOR: RUTH C. PEARCE, PH.D.

LECTURER: GALIA S. BODDE

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of pre-revolutionary as well as contemporary Russia. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In Russian 1, 101, 202c, the use of the Laboratory forms an integral part of the course.

REQUIREMENTS IN THE MAJOR SUBJECT: Russian 1, 101, 201, 200c and one advanced course. Also Russian 203 or History 206 (History of Russia). If a student offers Russian for entrance, Russian 203 or History 206 may be substituted.

ALLIED SUBJECTS: History 204b, 206 (strongly recommended), 301; Political Science 201a, 210; any language or literature, History of Art, Music, Philosophy.

1. *Elementary Russian*: Miss de Graaff, Mrs. Pearce, Mrs. Bodde.

The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. *Intermediate Russian*: Mrs. Bodde, Mrs. Pearce.

Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

200. *Advanced Training in the Russian Language*: Mrs. Bodde.

1. On sabbatical leave, semester I, 1962-63.

201. *Readings in Russian Literature*: Miss de Graaff.

Representative writers of the nineteenth century. Conducted mostly in Russian.

[202.* *General Readings in Russian*: Mrs. Bodde.]

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports by the students and discussion of specific topics in Russian. Prerequisite: two years of Russian.

[203.* *Russian Literature in Translation*: Miss de Graaff.]

The leading Russian writers of the nineteenth century in translation. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace* and two of Turgenev's novels.

An advanced course, given in Russian, is selected from the following:

[301. *Russian Poetry of the Nineteenth Century*: Miss de Graaff.]

[302. *Pushkin and His Time*: Miss de Graaff.]

[303. *Russian Literature of the Twentieth Century*: Mr. Kline.]

304. *Social Trends in Nineteenth Century Russian Literature*: Miss de Graaff.

FINAL EXAMINATION: The final examination for students majoring in Russian consists of three parts:

1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A single topic of Russian literature or an allied subject. The Department is especially interested in allied subjects in the social sciences.

HONORS WORK: Honors work is offered to students recommended by the Department.

Sociology and Anthropology

PROFESSOR OF

ANTHROPOLOGY:

FREDERICA DE LAGUNA, PH.D.¹

Chairman

ASSOCIATE PROFESSOR

OF SOCIOLOGY:

EUGENE V. SCHNEIDER, PH.D.

LECTURERS IN

ANTHROPOLOGY:

JANE C. GOODALE, PH.D.

HAROLD W. SCHEFFLER, M.A.

PROFESSOR OF SOCIAL WORK

AND SOCIAL RESEARCH:

BERNARD ROSS, PH.D.

AT HAVERFORD

PROFESSOR OF SOCIOLOGY:

IRA DE A. REID, PH.D.¹

ASSOCIATE PROFESSOR

OF SOCIOLOGY:

PAUL HARE, PH.D.

VISITING ASSOCIATE

PROFESSOR OF SOCIOLOGY: ROBERT C. WILLIAMSON, PH.D.

The student may select one of three programs: (1) A major in Anthropology, (2) A major in Sociology, (3) A joint major in Sociology and Anthropology. Each of these programs is described below.

ANTHROPOLOGY

The aim of the major is to introduce the student to an understanding of man and his works, evolution, the origin and development of culture, and the basic cultural patterns and social processes in diverse societies. The advanced courses explore special fields or areas, and also discuss theories about cultural processes and the nature of culture itself.

REQUIREMENTS IN THE MAJOR SUBJECT: 101, 203a and b, 204a, 208a or 209a, 301b, 303a or 304a.

ALLIED SUBJECTS: Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Philosophy, Political Science, Psychology, Sociology.

101. *Man, Culture and Society*: Miss Goodale.

Man's place in nature; the development of human culture to the rise of the early civilizations in the Old and New Worlds; the nature of culture and its forms among primitive peoples.

1. On sabbatical leave for the year 1962-63.

203a. *Primitive Culture*: Mr. Scheffler.

Analysis of significant studies of culture in selected areas, illustrating the methods and aims of ethnography. Prerequisite: Anthropology 101.

203b. *Primitive Society*: Mr. Scheffler.

Social structures of preliterate peoples; their functions and the types of sanctions which control their members. Prerequisite: Anthropology 101 and 203a.

[204a. *American Archaeology*: Miss de Laguna.]

Introduction to the archaeology of the Indians of Middle and North America. Prerequisite: Anthropology 101 or 209b, or Classical Archaeology 101, or permission of instructor.

205b.* *Religion of Primitive Peoples*: Mr. Scheffler.

The nature of primitive religious systems; magic, witchcraft, myth and ritual.

208a. *Human Evolution*: Miss Goodale.

Prerequisites: Anthropology 101, Biology 101 or Geology 101.

[209a. *Stone Age Man and the Modern World*: Miss Goodale.]

Contemporary hunting and gathering peoples in the old and new worlds; their adjustments to their natural environments; their relation to stone age cultures of the past, their contributions to and relations with modern civilized cultures.

[209b. *The American Indian*: Miss de Laguna.]

The Indians of Middle and North America as presented in such literary sources as reports of early explorers, anthropological novels, and native autobiographies, revealing ethos and cultural values.

301b. *Cultural Theory*: Miss Goodale.

Analyses of the important classical and modern contributions to ethnological theory. Prerequisite: Anthropology 203a.

303a. *Ethnological Problems in Oceania*: Mr. Scheffler.

Prerequisite: Anthropology 203a.

[304a. *Culture and Personality*: Miss de Laguna.]

The relation of human personality to culture and its variations in different cultural settings. Prerequisite: Anthropology 101 and 203a.

FINAL EXAMINATION: The final examination for students majoring in Anthropology is in three parts:

1. General Anthropology.
2. History and Theory.
3. A special field or project in Anthropology, or an allied field.

HONORS WORK: Honors work is offered to students of marked ability, and will consist of independent reading, reports and conferences, and the preparation of a written report.

SOCIOLOGY

The aim of the major in Sociology is to provide the student with a general understanding of the structure and functioning of modern society, its major institutions, groups, values, and of the interrelations of these with personality. Attention is also paid to the major stresses and strains of modern society, and the resultant social problems. Free elective work is offered to those who may be interested in applying their knowledge to the field of social work.

The work of this program is closely integrated with the work in Sociology offered at Haverford College. The student will note that one course is required at Haverford, and that other courses are open for the major work.

REQUIREMENTS FOR THE MAJOR SUBJECT: 102a and b, 21a (Haverford), 201b or 206b, 302a, and one further unit of work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford. In addition, the student is required to take one of the following courses: Anthropology 101, Economics 101, or Psychology 101.

ALLIED SUBJECTS: Anthropology, Economics, Psychology, Political Science, Philosophy, History and Statistics.

102a. *Introduction to Sociology:* Mr. Schneider.

An analysis of the basic sociological perspectives, methods and concepts used in studying society. Attention will be paid to various forms of social organization; groups, crowds, publics, institutions, organizations. Examples will be drawn from several non-industrial societies.

102b. *Social Institutions:* Mr. Schneider.

Analysis of the structure and dynamics of complex, indus-

trial societies. Examples will be drawn from several societies, but major emphasis is on the United States.

202a.* *History and Philosophy of Social Welfare*: Mr. Ross.

American social welfare programs, their heritage and future trends; social work as an institution and profession.

[207b. *Race Relations and Minority Groups*: Mr. Schneider.]

The position and problems of several minority groups in American and other societies, relations between minority and majority groups, prejudice and discrimination.

302a. *Social Theory*: Mr. Schneider.

Analysis of the theoretical work of several classical and modern thinkers.

SOCIOLOGY AT HAVERFORD

21a. *Social Research*: Mr. Hare.

An analysis of classic and significant studies in the fields of social sciences with a view toward understanding the methods, tools, techniques and hypotheses of social research. Studies will demonstrate the use of statistical, case, historical and other research procedures. Individual projects.

33a. *Population Policies and Problems*: Mr. Williamson.

A study of the restrictive, expansive and eugenic aspects of national population policies as they are related in demographic theory. Special reference is given to the problems of fertility and mortality, density, immigration and food supply.

35a. *The Sociology of Small Groups*: Mr. Hare.

Theoretical and experimental analyses of the structure and interactions systems of small social groups. Special attention is given to the methodologies of sociometry and field theory and their relevance for economic, political and social situation analysis.

37a. *The Family*: Mr. Williamson.

A study of the institutions designed to guarantee the perpetuation of the group and its cultural heritage in comparative societies. The course will analyze functions, forms and processes of the institutions of marriage and the family. Individual projects.

38b. *The Modern Urban Community*: Mr. Williamson.

A study of the social and spatial aspects of modern urban community organizations as influenced by personal, technological, ecological, economic and political factors. Special attention is given to the problems and processes of planning. Individual projects.

FINAL EXAMINATION: The final examination for students majoring in sociology is in three parts:

1. Sociology.
2. A special field in Sociology.
3. An allied field.

HONORS WORK: Honors work is offered to selected students and will consist of independent reading and research, conferences and the preparation of a written report.

JOINT MAJOR IN SOCIOLOGY AND ANTHROPOLOGY: The aim of the major is to provide the student with a general understanding of human society and human culture as these have developed in different parts of the world from prehistoric to modern times. Man's racial and cultural history is traced, and analyses are made of cultural and social institutions of primitive and complex societies. The advanced work is planned to bring together the major contributions in the fields of social and cultural theory.

REQUIREMENTS IN THE MAJOR SUBJECT: 101, 102a and b, 21a (HAVERFORD), or another half unit of second-year Sociology, 203a, 301b, and 302a.

FINAL EXAMINATION: The final examination for students taking the joint major is in three parts:

1. General Anthropology.
2. Sociology.
3. A second field in either Anthropology or Sociology; or an allied field.

HONORS WORK: Honors work in the joint major is offered to students recommended by the Department, and will consist of independent reading and research, conferences, and the preparation of a written report.

Spanish

ASSISTANT PROFESSOR: WILLARD FAHRENKAMP KING, PH.D.,
Chairman

VISITING LECTURER IN
SPANISH AND HISTORY
OF ART:

ENRIQUE LAFUENTE FERRARI, PH.D.

LECTURER:

PHYLLIS TURNBULL, *D. en F.L.*

INSTRUCTOR:

MIGUEL GONZALEZ-GERTH, M.A.

DEAN OF THE COLLEGE: DOROTHY NEPPER MARSHALL, PH.D.

PROFESSOR OF PHILOSOPHY: JOSÉ MARIA FERRATER MORA, *Lic.F.L.*

The major in Spanish includes work in both literature and language. It includes a two-year survey of Spanish literature, followed by more specialized advanced courses dealing with the literature of special periods, or with various literary forms. One course is devoted to training in written and spoken Spanish. Students are encouraged to supplement their course work by spending the Junior year in Spain or a summer in a Spanish-speaking country, or by living in the Spanish House. It is strongly advised that all students make use of the tapes available in the Language Laboratory. In Spanish 1 and 3 the use of the Laboratory forms an integral part of the course.

REQUIREMENTS IN THE MAJOR SUBJECT: Spanish 101, 102 and at least two advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202.

ALLIED SUBJECTS: Any other language or literature, Economics, History, History of Art, Music, Philosophy, Political Science and Sociology and Anthropology.

1. *Elementary Spanish*: Mr. Gonzalez-Gerth, Miss Turnbull.

Grammar, composition, readings on the Spanish and Spanish-American background.

3. *Intermediate Spanish*: Mr. Gonzalez-Gerth.

Intensive grammar review and exercises in composition and conversation.

101. *Masterpieces of Spanish Literature (from 1700 to 1936)*: Mrs. King.

A panoramic view of the development of Spanish literature during the eighteenth, nineteenth and twentieth centuries, emphasizing representative works of each period or literary school: Neoclassicism, Romanticism, Realism, etc.

- [102. *Masterpieces of Spanish Literature (from the Poema del Cid to 1700)*: Mrs. King.]

A survey of Mediaeval, Renaissance and Baroque literature, emphasizing the development of the various genres. Special attention is given to the Spanish Golden Age.

202. *Spanish Readings and Composition*: Miss Turnbull.

Designed to aid the student in interpretation of texts, appreciation of stylistic differences, translation and original composition in Spanish. Assignments are adapted to the needs and level of achievement of the individual student.

- 203a. *Spanish American Literature: The literary revolution*: Mr. Gonzalez-Gerth.

Poetry and prose from the *Modernista* movement to the present.

- 203b. *Spanish American Literature: The political and social revolution*: Mr. Gonzalez-Gerth.

The development of the national ideal in the prose writers from Sarmiento to the present.

- 302a. *Mediaeval Spanish Literature*: Miss Turnbull.

- [303a. *The Modern Novel in Spain*: Mrs. King.]

The development of the Spanish narrative from the Generation of 1898 to the present.

- [303b. *Modern Spanish Poetry*.]

Spanish poetry from *modernismo* to the present.

- 304a. *Drama of the Golden Age*: Mrs. King.

Representative works of Cervantes, Lope de Vega, Tirso de Molina, Calderón and other outstanding dramatists.

304b. *The Age of Cervantes*: Mrs. King.

The development of Cervantes' art in the drama, the short story, and the novel, with special attention to *Don Quixote*.

[305. *Prose Fiction of the Renaissance*.]

From *La Celestina* to *Don Quixote*.

306b. *The Eighteenth Century: The World of Goya*: Mr. Lafuente.

Given in *Spanish*.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination in Spanish consisting of the explanation and interpretation of a Spanish text.
2. A three-hour written examination in Spanish on a period of Spanish literature.
3. A three-hour written examination on the development of a literary genre through Spanish literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: Honors work is offered to students recommended by the Department. This work consists of independent reading conferences and a long paper.

Interdepartmental Courses

The following courses are given by several departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them.

- [102. *Introductory Chemistry and Physics*: To be offered in 1963-64 by members of the Departments of Chemistry and Physics.]

This course is intended to give an introduction in depth to our present knowledge of the physical world, and of its quantized, atomic and molecular structure, as well as of the processes by which this knowledge has been obtained. It will cover essentially all of the subject matter included in Chemistry 101 and Physics 101, and will serve as preparation for Chemistry 201a, Chemistry 202, and Physics 201a. One and one-half units.

- [202. *Aspects of Eighteenth Century Life and Thought*: Miss Robbins, Miss Northrop, Miss Stapleton.]

- [203. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.]

The development of scientific ideas is traced against the historical background of other intellectual activities, social changes, and technological inventions. Important scientific concepts and theories are analyzed, and the basic assumptions of scientists of the past are compared with those of the present day. The course is open to students who have had one year of laboratory science in college, and should be of special interest to those majoring in History, Philosophy, Mathematics or Science.

- [208a. *The Soviet System*: Mr. Hunter, Haverford College.]

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisites: Economics 101 or Political Science 101a and 102b or History 101. (This course is also listed as Political Science 208.)

- [301. *The Theory and Practice of Democracy*: Mr. Wells, Miss Stapleton, Miss Stearns, Mr. Hubbard.]

- 304a. *Aspects of Latin American Politics and Economics*: Mrs. Marshall, Mr. Baratz.

Detailed study of certain basic political and economic problems in Latin America. Open to students who have had at least one year of Political Science and Economics. Preference given to those who have a reading knowledge of Spanish.

- [307b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz.]

A study of political power, with special reference to current controversies in the United States as to the nature and sources of power and with analysis of the implications for the democratic process. (This course is also listed as Political Science 307b.)

- 308a. *Introduction to Linguistics*: Mr. Shetter.

Introduction to the scientific study of language. The historical approach and especially methods of linguistic analysis as developed in American structural linguistics. The course is relevant to any discipline where the study of language is important.

Physical Education

DIRECTOR:	IRENE A. CLAYTON, M.S.
INSTRUCTORS:	ETHEL M. GRANT GLORIA SCHMIDT, M.A. JANET YEAGER

Through the offerings in the Physical Education Department, students are given opportunities to participate in varied fields of both individual and team sports, dance and aquatic activities. Class instruction during the first two years enables the student to learn new skills or to improve her techniques. Interclass, interhall and varsity schedules of games and tournaments offer all students the experience of competition in sports. Creative interest in modern dance is encouraged through class work and extra-curricular programs. The Department cooperates with the Athletic Association and in promoting the activities of the Dance Club, Synchronized Swimming Club, and Outing Club.

The freshman requirement in Physical Education consists of three periods a week throughout the year; part of the Fall, Winter I and Winter II terms will be given over to the study of Rhythms as related to good movement along with the fundamentals of Modern Dance. All of Winter I is devoted to the basic principles of good movement with an especial application to sports activities. The sophomore requirement consists of two periods a week throughout the year. All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student who is not excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Transfer students will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings from which election may be made are:

FALL: archery, fencing, fundamental skills, golf, hockey, modern dance, riding,* swimming, tennis, volleyball, and American Red Cross Senior Life Saving Course. WINTER: badminton, basketball, diving, fencing, folk dance, golf, modern dance, skating,* swimming, volleyball, and American Red Cross Water Safety Instructor Training Course. SPRING: archery, golf, lacrosse, riding,* swimming, tennis and volleyball.

SWIMMING TEST: one standing dive, back float two minutes, tread water one minute, bobbing twice, and swimming any stroke 20 minutes.

* Open only to Sophomores, with permission of the Department.

Financial Aid

THE scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. The awards made from some scholarship endowments are reported in specific amounts. In the case of other awards for which the specific amount is not reported, the stipend is set according to the needs of the student.

Three outstanding scholarship programs have recently been established by the National Merit Scholarship Corporation, the General Motors Corporation and the Procter and Gamble Fund. Awards for the General Motors Scholarship and the Procter and Gamble Scholarship are made by Bryn Mawr College. The Ford Company has a scholarship program for the children of its employees as do other large corporations. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Scholarship aid is held each year by twenty-eight to thirty per cent of undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately \$1000. Requests for financial aid are reviewed by the Scholarship Committee and judged on the basis of the student's academic promise and achievement on the one hand, and, on the other, her financial situation and that of her family. All applicants must submit in support of application for financial aid the form entitled *Parents' Confidential Statement* which is prepared by the College Scholarship Service of the College Entrance Examination Board. When the total amount of aid needed has been determined, awards are made in the form of loans and scholarships. Beginning with the class of 1966, all students who are granted a scholarship in the award of the college or the alumnae clubs will

be required to borrow the first \$200 of their total financial aid from the Gerard and Mary Hill Swope Loan Fund (see page 135). Students receiving assistance generally plan to earn money by part-time work during the college year and by summer positions. Employment opportunities are described on page 137.

Scholarships are available both to entering students and to those who have completed one or more years of study in the College. Students entering on transfer from other colleges are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

APPLICATIONS FOR FINANCIAL AID AVAILABLE AT ENTRANCE

Application forms for Financial Aid for the freshman year may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. Each candidate for aid must also file with the College Scholarship Service, Box 176, Princeton, New Jersey, a form entitled Parents' Confidential Statement in Support of Application for Financial Aid. These two forms must be filed with the College and with the College Scholarship Service *no later than January 1* of the student's final year in high school in the case of regular applicants, and no later than October 1 in the case of applicants under the Early Decision Plan.

Since scholarship funds of the College are not sufficient to cover the needs of the many well-qualified applicants, students are urged to consult their school counselors about national and local scholarships which may be available.

UNDERGRADUATE SCHOLARSHIPS

The renewal like the award of scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed forms must be returned to the Dean of the College by March 1. A new financial statement completed by the applicant's family is required each year. Letters of support are requested from members of the faculty familiar with the student's academic work.

Scholarships

SCHOLARSHIPS AWARDED AT ENTRANCE AND TENABLE FOR FOUR YEARS

Bryn Mawr Alumnae Regional Scholarships are available to students in all parts of the United States. These scholarships, raised by alumnae, vary in amount but generally cover full tuition. A list of the regional districts and of the Alumnae District Councillors will be found on page 139. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured of assistance either from alumnae committees in their districts or from the College. (1922)

The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College was founded by bequest of Florence C. Child of the Class of 1905. The income from this fund of \$115,494 is to be used for the residence fees of one or more students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will then be assigned by the College to students who could not live in residence without such assistance and who are not holding other scholarships. (1957)

The Charles E. Ellis Scholarship, value \$700, tenable for four years, was founded by bequest of the late Charles E. Ellis. It is awarded on the recommendation of the Superintendent of Public Schools of the City of Philadelphia, subject to the approval of the Board of Directors of Bryn Mawr College, to a student educated in the Philadelphia public schools. (1909)

The Foundation Scholarships, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They may be awarded annually to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

NOTE: *The dates in parentheses in the listings on this and the following pages indicate the year the scholarship was established.*

The General Motors Scholarship "makes it possible for students of ability but limited resources to complete their education and thus realize their potentialities to the fullest." In addition, the Corporation makes available to private colleges unrestricted grants-in-aid toward that part of the costs of education not covered by the student's tuition. The award, which covers a maximum of \$2,000 a year, depending upon demonstrated need, is made "on the basis of secondary school records and reports as well as extra-curricular activities and leadership characteristics." The selection is made by Bryn Mawr College. (1963)

The Priscilla Hunt Scholarship was given in memory of Priscilla Hunt of the Class of 1950 by her mother and father, Ruth Van Natta Hunt and Leigh L. Hunt. The scholarship, awarded first in 1955-1956 and again in 1959-1960 in the amount of \$1,000 and tenable for four years, will be awarded to a candidate from certain counties in the state of Indiana. (1955)

The Minnie Murdoch Kendrick Memorial Scholarship, tenable for four years, was founded by bequest of \$5,000 under the will of George W. Kendrick, Jr., in memory of his wife. It is awarded every four years to a candidate nominated by the Board of Public Education of Philadelphia. The most recent award was in 1959-1960. (1916)

The Gertrude Howard McCormick Scholarship Fund was established by gift of \$25,000 by the late Gertrude Howard McCormick. The scholarship, value \$1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

The Philadelphia Board of Public Education Scholarships are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)

The Procter and Gamble Scholarship provides an amount equal to full tuition and fees, and an allowance for books. The scholarship may be renewed annually throughout the four years on the basis of successful undergraduate performance and continuing financial need. This scholarship program was established by the Procter and Gamble Fund "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

The Lidie C. B. Saul Scholarship, tenable for four years, is given by the Alumnae Association of the Girls' High School and

Normal School of Philadelphia. It is awarded every four years to the graduate of the Girls' High School who enters Bryn Mawr College with the highest grade of that year. (1895)

Seven College Conference Scholarships are awarded annually by the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley). One scholarship, varying in amount up to full expenses for tuition and residence, is given annually by each of the colleges in each of three areas: the *far west* (Washington, Oregon, California and Idaho), the *central states* (Kansas, Missouri, Nebraska and Colorado), and the *southwest* (Arizona, Louisiana, New Mexico, Oklahoma, Texas and Arkansas). One of these scholarships is supported at Bryn Mawr by a grant made by the *George F. Baker Trust*. (1950) The others are supported by income from the *Fanny R. S. Peabody Fund* of \$177,927. (1943)

The Frances Marion Simpson Scholarships, carrying free tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to \$20,000. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties or at home by parents or guardians; thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

The Trustees' Scholarships, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

FOR FOREIGN STUDENTS

The Chinese Scholarship, awarded every four years and tenable for four years, comes in part from the annual income of a fund now totalling \$30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

The Marguerite N. Farley Scholarships for foreign students were established by bequest of Marguerite N. Farley. The income from a fund of \$331,425 will be used for scholarships for foreign graduate and undergraduate students covering part or all of their expenses for tuition and residence. (1956)

The Special Trustees' Scholarship is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. The scholarship for students from foreign countries was first offered by the Trustees in 1940.

The Undergraduate Scholarship, raised and awarded by the Undergraduate Association in consultation with the President and the Director of Admissions, is awarded every four years to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition. (1938)

For other four-year scholarships, not in the award of Bryn Mawr College, students should see page 119.

SCHOLARSHIPS AWARDED AT ENTRANCE
AND TENABLE FOR THE FRESHMAN YEAR ONLY

The Bryn Mawr School Scholarship, instituted by the Board of Managers of the Bryn Mawr School of Baltimore, Maryland, has been offered annually since the College opened in 1885 to the graduate of the Bryn Mawr School who has completed the school course with the greatest distinction and who plans to enter Bryn Mawr College.

The Alice Day Jackson Scholarship Fund of \$10,000 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. (1930)

The Clara Bertram Little Memorial Scholarship was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling \$10,000 is awarded to a student from New England selected by the President on the basis of merit and financial need. (1947)

The Louise Hyman Pollak Scholarship was founded by the Board of Trustees from a bequest of \$5,061 by Louise Hyman

Pollak of the Class of 1908. The income from this fund now totalling \$6,666, supplemented by gifts from Julian A. Pollak, is awarded annually to a student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

The Amy Sussman Steinhart Scholarship, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now totalling \$11,383 is awarded annually to a student from one of the states on the west coast. (1932)

SCHOLARSHIPS AWARDED AT THE END OF THE FRESHMAN YEAR AND TENABLE FOR THE THREE SUBSEQUENT YEARS

The Jeannette Peabody Cannon Memorial Scholarship Fund, now totalling \$7,405, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years at the termination of the freshman year on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class residing in New England who needs financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. In 1962 a generous addition of \$6,011 was made to the Jeannette Peabody Cannon Memorial Scholarship Fund by Mrs. Donald Wing of New Haven. (1949)

The Leila Houghteling Memorial Scholarship Fund in the amount of \$10,000 was founded in memory of Leila Houghteling of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

SCHOLARSHIPS AWARDED AT THE END OF THE FRESHMAN YEAR AND TENABLE FOR THE SOPHOMORE YEAR ONLY

The Maria Hopper Scholarships, two in number, were founded by bequest of \$10,000 under the will of Maria Hopper of Philadelphia and are awarded annually. (1901)

The James E. Rhoads Memorial Sophomore Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

SCHOLARSHIPS AWARDED AT THE END OF THE
SOPHOMORE YEAR AND TENABLE FOR THE
TWO SUBSEQUENT YEARS

The Annie Lawrie Fabens Crozier Scholarship Fund was established by a gift of \$31,650 from Mr. and Mrs. Abbott P. Usher in memory of Mrs. Usher's daughter, Annie Lawrie Fabens Crozier of the Class of 1951, who died only a few years after her graduation from Bryn Mawr. The scholarship, in the amount of \$1,250, is to be awarded to a junior or senior of distinction who is majoring in English. (1960)

The Jeanne Crawford Hislop Memorial Scholarship Fund of \$5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. This scholarship may be renewed for the senior year. (1939)

The Serena Hand Savage Memorial Scholarship was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of \$21,769 is awarded to a member of the junior class who shows great distinction of scholarship and character and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

SCHOLARSHIPS AWARDED AT THE END OF THE
SOPHOMORE YEAR AND TENABLE FOR THE
JUNIOR YEAR ONLY

The Anna Hallowell Memorial Scholarship was founded in memory of Anna Hallowell by her family. The income on a fund of \$2,585 is awarded annually to the student in need of aid who has the highest academic record. (1912)

The James E. Rhoads Memorial Junior Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund

to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The Mary E. Stevens Scholarship Fund was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of \$3,188 is awarded annually. (1897)

SCHOLARSHIPS AWARDED AT THE END OF THE JUNIOR YEAR AND TENABLE FOR THE SENIOR YEAR ONLY

The Anna M. Powers Memorial Scholarship was founded in memory of Anna M. Powers by a gift of \$5,000 from her daughter, Mrs. J. Campbell Harris. (1902)

The Thomas H. Powers Memorial Scholarship was founded in memory of Thomas H. Powers by bequest under the will of his daughter, Mrs. J. Campbell Harris. (1902)

SCHOLARSHIPS TENABLE IN ANY YEAR AFTER THE FRESHMAN YEAR

The Elizabeth P. Bigelow Memorial Scholarship Fund was established by a gift of \$42,281 by Mrs. Henry B. Bigelow in memory of her daughter Elizabeth P. Bigelow who was graduated *cum laude* in 1930. (1960)

The Book Shop Scholarships are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund, which now amounts to \$15,555. (1947)

The Jacob Fussell Byrnes and Mary Byrnes Fund was founded in memory of her father and mother by a bequest of \$51,513 under the will of Esther Fussell Byrnes of the Class of 1891. By vote of the Board of Directors the income is used for annual scholarship for students in need of financial aid. (1948)

The Mariam Coffin Canaday Scholarship Fund was established by a gift of \$18,866 from the Ward M. and Mariam C. Canaday Educational and Charitable Trust. The income from this Fund is to be capitalized until the Fund reaches the amount of \$25,000. Scholarships are then to be awarded from the income, with preference given to students from metropolitan Toledo, Ohio. (1962)

The Susan Shober Carey Award was founded in memory of Susan Shober Carey by a gift totalling \$3,200 from the Class of 1925 and is awarded annually by the President. (1931)

The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship was established by bequest of \$5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

The Class of 1903 Scholarship Fund was established by gift of \$12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1955)

The Class of 1920 Memorial Scholarship Fund was founded in memory of classmates by the Class of 1920 from reunion gifts totalling \$2,145. The income from the fund is to be awarded annually. (1955)

The Julia Cope Collins Scholarship was established by bequest of \$10,000 from the estate of Julia Cope Collins, Class of 1889. (1959)

The Alice Perkins Coville Scholarship Fund, now totalling \$5,000, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

The Regina Katharine Crandall Scholarship was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to \$10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore, junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund of \$2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)

The Abby Slade Brayton Durfee Scholarship Fund, which now amounts to \$10,000 was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles B. Brown of the Class of 1930. Preference in awarding it is given to candidates of

English or American descent and to descendants of the Class of 1894. (1924)

The Anne Long Flanagan Scholarship was established by a gift of \$29,687 from Anne Long Flanagan of the Class of 1906 on the occasion of the 55th reunion of the class. The income on this fund is to be used to provide scholarships for Protestant students. (1961)

The William Franklin Scholarship Fund was established by a bequest of \$35,985 from the Estate of Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island. (1957)

The Katharine Hepburn Scholarship, value \$1,000, given for the year 1962-1963, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion picture, and to the cultivation of English diction and of literary appreciation. (1952)

The Katharine Houghton Hepburn Memorial Scholarship given in memory of Katharine Houghton Hepburn of the Class of 1900 is awarded for the junior or senior year to a student who has demonstrated both ability in her chosen field and independence of mind and spirit. (1957)

The George Bates Hopkins Memorial Scholarships were founded by a gift of \$10,000 from Mrs. Elizabeth Hopkins Johnson in memory of her father. Preference is given to students of Music and, in default of these, to students majoring in History, and thereafter to students in other departments. (1921)

The Evelyn Hunt Scholarships, two in number, were founded in memory of Evelyn Hunt by bequest of \$10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

The Jane Lilley Ireson Scholarship was established by a bequest of \$227,657 under the will of Jennie E. Ireson. The income on each \$5,000 of this fund is to be awarded as a scholarship to a worthy student who may require financial assistance. (1959)

The Misses Kirk Scholarship Fund, now amounting to \$1,375, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)

The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund, now amounting to \$17,930, was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920)

The Mary Anna Longstreth Memorial Scholarship, established by a gift of \$5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

The Lorenz-Showers Scholarship Fund of \$3,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

The Evelyn Flower Morris Cope and Jacqueline Pascal Morris Evans Scholarship Fund, amounting to \$10,500, was established by members of their families in memory of Evelyn Flower Morris of the Class of 1903 and Jacqueline Pascal Morris of the Class of 1908. (1959)

The Jean Brunn Mungall 1944 Memorial Fund was established by the Class of 1944. The income is to be used for scholarships. (1955)

The Mary McLean and Ellen A. Murter Memorial Fund, now amounting to \$14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

The Frank L. Neall and Mina W. Neall Scholarship Fund was established by a legacy of \$25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College. (1957)

The Mary Frances Nunns Scholarship was established by a bequest of \$25,367 under the will of Mary Frances Nunns. The income only is to be used. (1960)

The Florence Morse Palmer Scholarship was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer of the Class of 1924, by gifts now totalling \$10,000. (1954)

The Anna and Ethel Powers Memorial Scholarship was established by a gift of \$1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. The fund is now re-established at \$8,277 in memory of both Anna Powers and her sister, Mrs. Hough (Ethel Powers) by Nancy Hough Smith. (1919, 1958-1962)

The Amelia Richards Scholarship was founded in memory of Amelia Richards of the Class of 1918 by bequest of \$10,000

under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

The Maximilian and Reba E. Richter Scholarship Fund was established by a bequest of \$50,000 in the will of Max Richter, father of Helen Richter Elser of the Class of 1913. The income from this fund is to be used to provide assistance for one or more students in the obtaining of either an academic or professional degree. The fund shall be administered on a non-sectarian basis to such applicants as are deemed worthy by habits of character and scholarship. No promises of repayment shall be exacted but it is hoped that students so benefited will desire when possible to contribute to the fund in order that similar aid may be extended to others. Such students shall be selected from among the graduates of public high schools of public colleges in the City of New York. (1961)

The Mary Williams, Sherman Memorial Scholarship Fund, now amounting to \$4,152, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

The Shippen Huidekoper Scholarship Fund of \$5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

The Anna Margaret Sloan and Mary Sloan Scholarships were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of \$16,858 is awarded annually to students majoring in Philosophy or Psychology. (1942)

The Cordelia Clark Sowden Scholarship Fund was established by a bequest of \$15,000 from the Estate of Helen C. Sowden. The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award. (1957)

The Summerfield Foundation Scholarship was established by a gift from the Solon E. Summerfield Foundation. The income from this fund, which now totals \$5,000, is to be used to assist able students who need financial help to continue their studies. (1958)

The Mary Hamilton Swindler Scholarship was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling \$6,630. The income from this fund is used for a scholarship for the study of Archaeology at Bryn Mawr College. (1950)

The Elizabeth P. Taylor Scholarship Fund was established by a bequest of \$10,000 from Elizabeth P. Taylor of the Class of 1921. (1961)

The Elizabeth Wilson White Memorial Scholarship was founded in memory of Elizabeth Wilson White by a gift of \$7,500 by Thomas Raeburn White. It is awarded annually by the President. (1923)

The Mary R. G. Williams Scholarship Fund was established from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund will be used for emergency grants for students who are paying their own way through college. (1957)

The Mary Peabody Williamson Scholarship was founded by bequest of \$1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

The Ellen Winsor and Rebecca Winsor Evans Memorial Scholarship Fund was established by a bequest of \$5,230 in the will of Rebecca Winsor Evans. The scholarship is reserved for a Negro student with the right of residence in the halls of the College. (1962)

The Mrs. James D. Winsor Memorial Scholarship was established by a bequest of \$10,000 in the will of Mary Winsor, in memory of her mother. The income on this fund is to be used for a Negro student with the right of residence in the College. (1960)

The Mary Winsor Scholarship in Archaeology was established by a bequest of \$3,000 under the will of Mary Winsor. The income only to be used. (1960)

The Rebecca Winsor Evans and Ellen Winsor Memorial Scholarship Fund was established by a bequest of \$5,230 in the will of Ellen Winsor. This scholarship is reserved for a Negro student with the right of residence in the halls of the College. (1962)

The Lila M. Wright Memorial Scholarship was founded in memory of Lila M. Wright by gifts totalling \$2,987 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

The Georgie W. Yeatman Scholarship was founded by bequest of \$1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

Prizes and Academic Awards

The following awards, fellowships, scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic distinction and achievement.

The Bryn Mawr European Fellowship, value \$1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an *Elizabeth S. Shippen Scholarship for Foreign Study*.

The Maria L. Eastman Brooke Hall Memorial Scholarship was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling \$3,000 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

The Charles S. Hinchman Memorial Scholarship was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of \$12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

The Sheelah Kilroy Memorial Scholarships in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of \$5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)

The Elizabeth S. Shippen Scholarships were founded by two bequests of \$5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. *The Shippen Scholarship in Science*, to a student whose major subject is Biology, Chemistry, Geology or Physics;

2. *The Shippen Scholarship in Foreign Languages*, to one whose major subject is French, German, Greek, Italian, Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. *The Shippen Scholarship for Foreign Study* (See European Fellowship, page 131). (1915)

The Elizabeth Duane Gillespie Fund for Scholarships in American History was founded by a gift of \$1,500 from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American History, a second to a student doing advanced work in American History for an essay written in connection with that work. The income from this Fund has been supplemented since 1955 by an annual gift from the Society. (1903)

The Helen Taft Manning Essay Prize in History was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of \$2,600 is to be awarded as the Department of History may determine. (1957)

The Academy of American Poets Poetry Prize of \$100 has been awarded each year for five years to the student who submits to the Department of English the best poem or group of poems. The Award, given by the Academy of American Poets, was first made in 1957 and renewed for five years in 1961.

The Bain-Swiggett Poetry Prize was established by a gift of \$1,000 from Mr. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the Faculty on the basis of work submitted. The income only is to be used. (1958)

The Hester Ann Corner Prize for distinction in literature was established in memory of Hester Ann Corner of the Class of 1942 by gifts totalling \$2,125 from her classmates and friends. The award is made annually to a junior or senior on the recommendation of a committee composed of the chairmen of the

Departments of English and of classical and modern foreign languages. Awarded in 1959. (1950)

The Katherine Fullerton Gerould Memorial Prize was founded by a gift of \$1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-1910. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

The M. Carey Thomas Essay Prize is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

The Charlotte Angas Scott Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in memory of Charlotte Angas Scott, Professor of Mathematics and a member of the faculty of Bryn Mawr College from 1885-1924. The income only from this gift is to be used. (1961)

The Anna Pell Wheeler Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in honor of Anna Pell Wheeler, Professor Emeritus of Mathematics and a member of the faculty of Bryn Mawr College from 1918-1948. The income only from this gift is to be used. (1961)

The Jeanne Quistgaard Memorial Prize was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of \$498 may be awarded every two years to a student in Economics. Awarded in 1959. (1938)

The Esther Walker Award was founded by the bequest of \$1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15 preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

The Linda B. Lange Fund was founded by bequest of \$30,000 under the will of Linda B. Lange of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

The Hannah E. Longshore Memorial Medical Scholarship was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of \$10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school and may be renewed for each year of medical study. (1921)

The Jane V. Myers Memorial Medical Scholarship Fund of \$10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Harriet Judd Sartain Memorial Scholarship Fund was founded by bequest of \$21,013 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

Loan Funds

Bryn Mawr College, through the generosity of alumnae and friends of the College, offers loans through three funds. In general \$500 is the maximum which may be borrowed in one year.

All requests for loans from any fund must be accompanied by the Parents' Confidential Statement of the College Scholarship Service.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, but not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1,500. Students who wish loans may obtain from the Dean or the Alumnae Office, on the second floor of the Deanery, the necessary blanks, which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work. Applications, except in cases of emergency, must be filed before September 10. Approximately a month is required for action on applications.

While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires; after the student leaves college, the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae Association, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945, by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be followed in awarding such loans: a. to students coming from New Jersey, b. to students coming from Missouri, c. to students coming from any other location who have had not less than one year residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a committee appointed by her from time to time.

3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

4. These loans shall be used primarily to enable the exceptional student to continue her studies, which otherwise would be prevented through lack of means.

5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 under the following conditions:

1. The \$200 loans required of scholarship students may be borrowed from this fund. Applications must be submitted simultaneously with scholarship applications.

2. Non-scholarship students and graduate students are also eligible to apply for loans from this fund.

3. The maximum amount which can be borrowed for any given academic year is \$500.

4. While the student is in college or graduate school no interest is charged, but she may reduce the principal of the loan if she so desires. After leaving Bryn Mawr College the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

5. Loans are awarded by a committee consisting of the Dean of the College (*Chairman*), the Dean of the Graduate School and the Director of Admissions.

Student Employment

Students may obtain employment such as clerical and library work, typing, reading aloud, child care and waiting on table through the Bureau of Recommendations, Taylor Hall. In conducting this Bureau, the College offers an employment service for permanent, temporary and part-time positions to its alumnae and former students as well as to those in college. It also offers assistance in choosing a vocation. Students registering with the Bureau will be informed of openings in the kind of work they have requested.

The Bureau also acts as a clearing house for letters of recommendation for its registrants; these letters will be sent upon request to prospective employers and other agencies for summer work for undergraduates or for full or part-time employment for alumnae and former students.

Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in the Library.

Alumnae Representatives

All Alumnae officers and representatives will be glad to give general information about the College.

Specific questions in regard to admissions or scholarships should be directed to the Office of Admissions, Bryn Mawr College, Bryn Mawr, Pa.

Officers of the Alumnae Association

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Corresponding Secretary, Mrs. Alexander B. Adams, 22 Newtown Turnpike, Westport, Conn.

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Chairman, Alumnae Fund, Mrs. Thomas S. Horrocks, 151 Booth Lane, Haverford, Pa.

Chairman, Scholarship and Loan Committee, Mrs. Robert E. Forster, 501 Oakley Road, Haverford, Pa.

Editor, The Alumnae Bulletin, Mrs. Arthur M. Sherwood, 19 Cleveland Lane, Princeton, N. J.

Alumnae Secretary, Mrs. B. Herbert Lee, The Deanery, Bryn Mawr, Pa.

Executive Secretary, Alumnae Fund, Miss Ellenor Morris, Braefield, Chester Springs, Pa.

Alumnae Directors of Bryn Mawr College

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3330 Club Drive, 64
North Hollywood
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11150 Aqua Vista Street

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2000 24th Street, N.W., 8
The Hon. Mrs. E. W. C. Russell,
2601 Foxhall Road, N.W., 7

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Miami Mrs. Dexter French,
4990 Hammock Lake Drive

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1284 Fairview Road, N.E., 6
Augusta Mrs. Landon Thomas, 2226 Pickens Road

HAWAII

Honolulu Miss Suzan G. Chaffee,
2891-B Kalakaua Avenue, 15

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315 South Hayes Street

ILLINOIS

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Lake Forest Mrs. Willard N. Boyden,
1255 North Green Bay Road
Mrs. William Burry, 909 Elm Tree Road

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4131 North Meridian Street
New Augusta Mrs. Harley W. Rhodehamel, Jr.,
Route 16, Box 204

IOWA

Bettendorf Mrs. Thomas Bates, 1312 Middle Road

KANSAS

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Mrs. James B. Sealey,
1515 South Ridgewood, 18

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1700 Lakewood Street
Louisville Mrs. Charles S. Blakely,
4709 Brownsboro Road, 7
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Miss Clare C. Hardy, 117 Bellemore Road, 10

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10 Larchwood Drive, 38

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66 Groveland Terrace, 5

Mrs. Lyndon M. King,
1941 Penn Avenue South, 5

Mrs. Courtland Y. White,
2315 Irving Avenue South, 5

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Kansas City Mrs. Gerald W. Gorman,
901 E. Vivion Road, 18

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6800 Kingsbury Boulevard, 30

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1105 South Tracy Avenue

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Nashua Miss Anna Stearns, 37 Orange Street

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Mrs. D. St. Pierre DuBose, Box 310

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Oklahoma City	Mrs. William T. Thach, 701 Northeast 50th Street, 5
Tulsa	Mrs. J. Bertis Terrell, 1922 South Xanthus Street, 4

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	Mrs. Robert L. Beebe, 2625 S.W. Patton Road, 1

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Whitemarsh	Mrs. C. Jared Ingersoll, Warriston Farm

RHODE ISLAND

Barrington Mrs. Frederick W. Thomas, II,
163 Mathewson Road

Providence Miss Helen C. Robertson,
50 Stimson Avenue, 6

TENNESSEE

Chattanooga Mrs. Glenn R. Kleinau,
2006 McCallie Avenue, 4

Nashville Miss Martha J. Lindsay, 4302 Estes Avenue, 12

TEXAS

Dallas Mrs. Geoffrey S. Warren, 5014 Waneta Drive, 9

Dickinson Mrs. Joseph Mares

El Paso Miss Mary Simpson Goggin,
1398 West Borderland Road

Houston Mrs. Spencer Letts, 3005 Purdue Street, 5

UTAH

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2519 East Grace Street, 23

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WASHINGTON

Bellevue Mrs. Donald T. Hall, 3655 Hunts Point Road

Seattle Mrs. Dan D. Pulsifer,
2552 East 83rd Street, 15

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11604 Interlaken Drive, S.W. 99

WISCONSIN

Madison Mrs. Moses S. Slaughter,
633 North Francis Street, 3

Milwaukee Mrs. Verne Ross Read, Jr.,
3533 North Shepard Avenue, 11

WYOMING

Laramie Mrs. John David Love, 309 South 11th Street

PUERTO RICO

San Juan Mrs. Manuel Gomez-Meltz,
Box 5155, Puerta de Tierra

FOREIGN COUNTRIES

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CANADA	Mrs. Ronald Dick, 245 Glenrose Avenue, Toronto Mrs. David B. Morgan-Grenville, 4988 Grosvenor Avenue, Montreal, 6
CHINA	Mrs. Walter C. Janney, Jr., c/o UNRO-801 Bank of East Asia Bldg., Hong Kong, B.C.C.
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ENGLAND	Mrs. James A. Cochrane, Woodmans Green Farm, Linch, near Liphook, Hampshire Mrs. Stanley Harper, 37 Clifford Road, London, S.E. 25 Mrs. Webster Plass, c/o British Museum, London, W.C. 1
EGYPT	Mrs. Rushti Said, The American University, Cairo
FRANCE	Mme Jean Maheu, 1 rue Clovis, Paris V Mrs. Stanislas Mangin, 47 rue de Bellechasse, Paris VII
GERMANY	Mrs. Hans Loening, Fischerhude Bei Bremen
GREECE	Miss Elizabeth Douli, Korae 18, Nea Smyrne, Athens
HOLLAND	Miss M. Sigrid de Vogel, 90 Ruychroklaan, The Hague
INDIA	Miss Harsimran Malik, 28 Golf Links, New Delhi 3 Mrs. Kalyani Raghavan, 4-B Pandara Road, New Delhi

ITALY	Mrs. Enrico Berra, Piazzale Biancomanis 2, Milan
JAPAN	Miss Taki Fujita, No. 10 Uenohara, Nakano, Tokyo Miss Ai Hoshino, 10 Uenohara-machi, Nakano-ku, Tokyo
MEXICO	Mrs. Arturo Gomez, Liverpool 149-102, Mexico City
NETHERLANDS WEST INDIES	Mrs. E. A. Eriksen, Box 447, Seroe Colorado, Aruba
NORWAY	Mrs. Harald Sommerfeldt, Hoffsveien 18, Skoyen, Oslo
PHILIPPINE ISLANDS	Mrs. Marcial P. Reyes, Jr., 14 Ilagen Street, San Francisco del Monte, Quezon City
TURKEY	Miss Suna Kili, Koybasi Caddes No. 295, Yenikoy, Istanbul
VENEZUELA	Mrs. Oscar Schnell, Apartado 69, Caracas

Academic Schedule

1962-1963

1962

FIRST SEMESTER

- September* 20. Graduate Center opens to resident students
Deferred, condition, auditors' examinations begin
- September* 21. Halls of residence open to entering class at 8 A.M.
Registration of entering undergraduate students
- September* 22. Deferred, condition, auditors' examinations end
- September* 23. Halls of residence open to returning undergraduates at 8 P.M.
- September* 24. Enrollment of returning undergraduate students
- September* 25. Work of the 78th academic year begins at 9 A.M.
- September* 27. Registration period for graduate students ends
Hygiene exemption examination for Freshmen
- October* 13. Spanish and Italian examinations for undergraduates, M.A. and Ph.D. candidates
Statistics examinations for M.A. candidates
- October* 20. German examinations for undergraduates, M.A. and Ph.D. candidates
- October* 27. Russian examinations for undergraduates, M.A. and Ph.D. candidates
Greek and Latin examinations for undergraduates
- November* 3. French examinations for undergraduates, M.A. and Ph.D. candidates
- November* 7. Hygiene examination
- November* 21. Thanksgiving holiday begins after last class
- November* 26. Thanksgiving holiday ends at 9 A.M.
- December* 14. Christmas vacation begins at 12:45 P.M.

1963

- January* 3. Christmas vacation ends at 9 A.M.
- January* 5. Spanish and Italian examinations for Seniors conditioned, M.A. and Ph.D. candidates
Statistics examinations for M.A. candidates

- January 12.* German examinations for undergraduates, M.A. and Ph.D. candidates
- January 18.* Last day of lectures
- January 19.* Russian examinations for Seniors conditioned, M.A. and Ph.D. candidates
Greek and Latin examinations for Seniors conditioned
- January 21.* College examinations begin
- January 26.* French examinations for Seniors conditioned, M.A. and Ph.D. candidates
- January 31.* College examinations end

SECOND SEMESTER

- February 4.* Work of the second semester begins at 9 A.M.
- March 29.* Spring vacation begins after last class
- April 8.* Spring vacation ends at 9 A.M.
Deferred examinations begin
- April 12.* Deferred examinations end
- April 20.* Spanish and Italian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1964
Statistics examinations for M.A. candidates for 1964
- April 27.* French examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1964
German examinations for undergraduates
- May 4.* German examinations for Ph.D. candidates, and M.A. candidates for 1964
- May 3-5.* Geology field trip
- May 11.* Russian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1964
Greek and Latin examinations for undergraduates
- May 17.* Last day of lectures
- May 20.* College examinations begin
- May 31.* College examinations end
- June 3.* Conferring of degrees and close of the 78th year
- June 8.* Alumnae Day

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Directions to Bryn Mawr

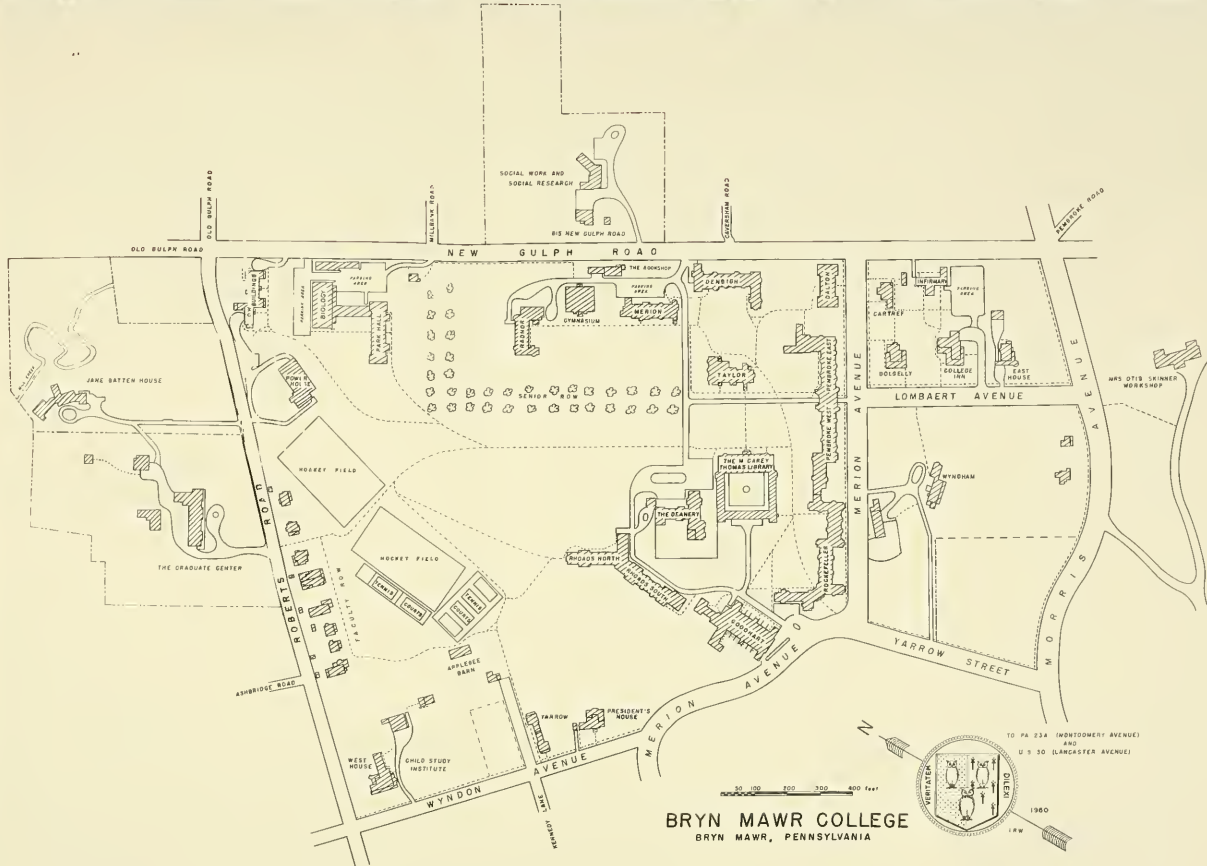
Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.



BRYN MAWR

UNDERGRADUATE COURSES

Bryn Mawr

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